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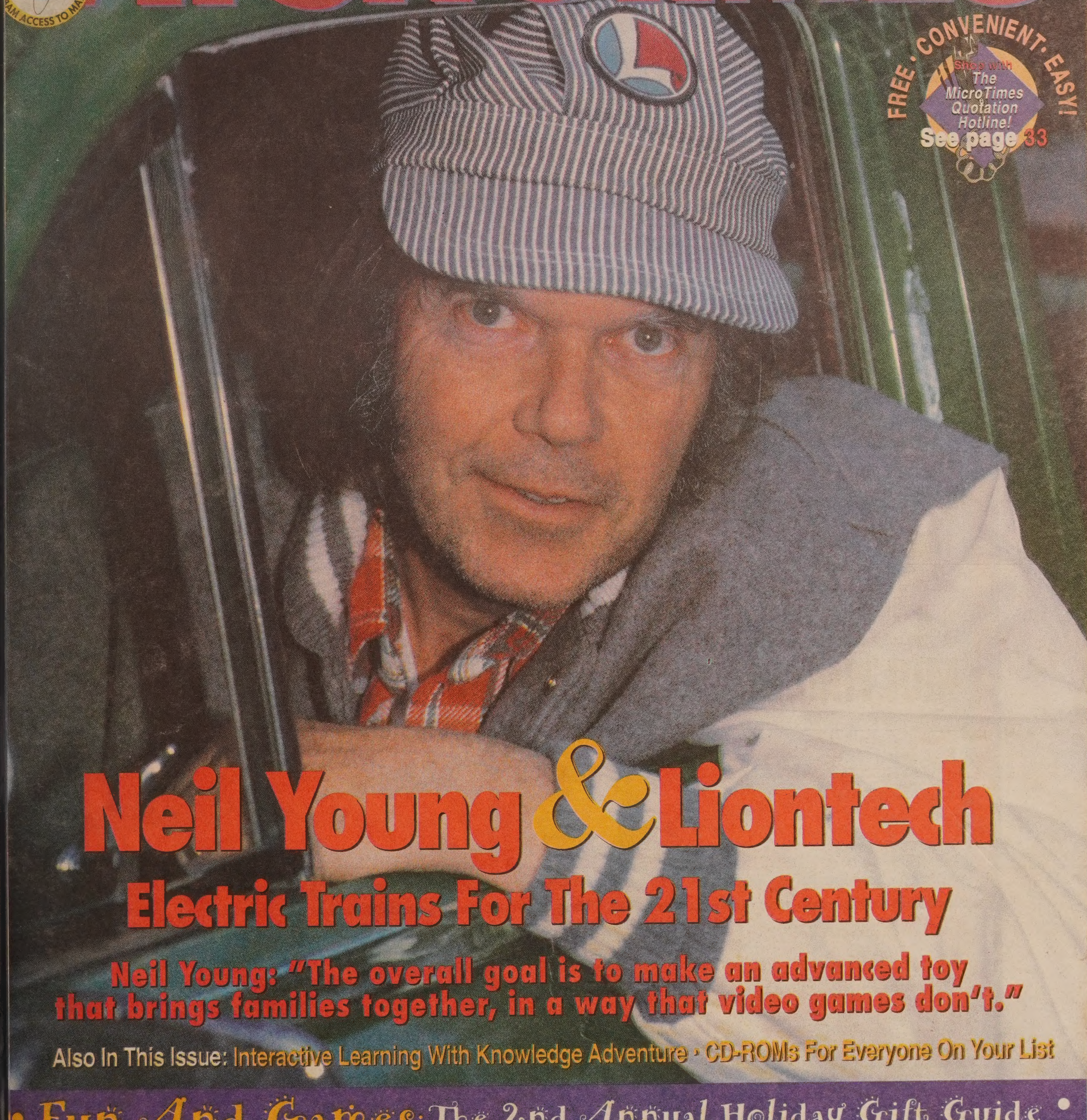

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Neil Young & Liontech

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• Fun And Games: The 2nd Annual Holiday Gift Guide •

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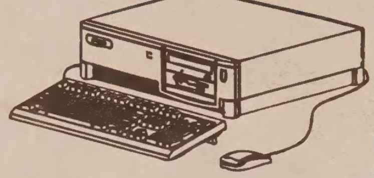

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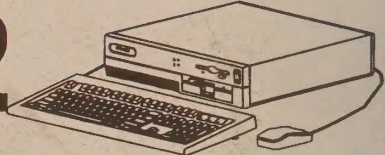

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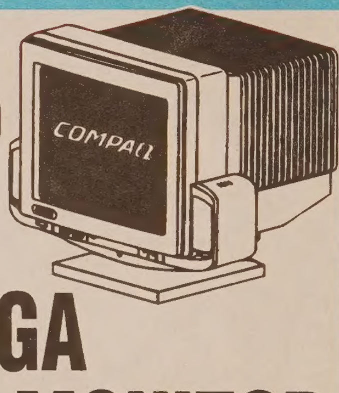

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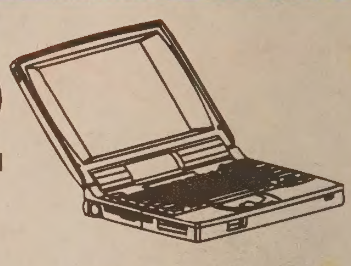

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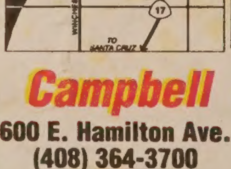
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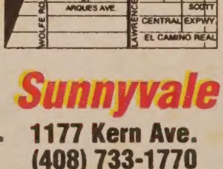
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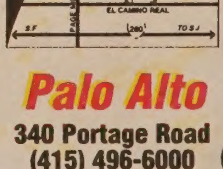
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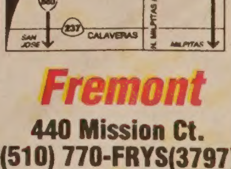
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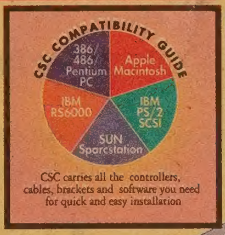

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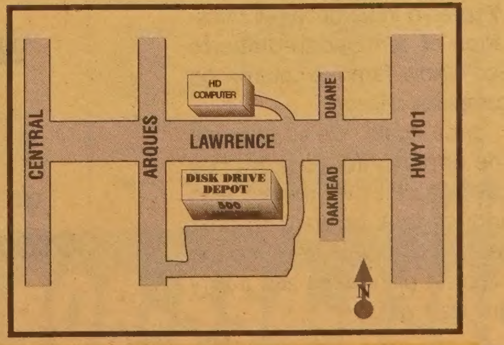

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November 28, 1994 • Issue #130

Happy Holidays!

Welcome to our second annual Fun & Games issue, in which we take a break from our normal activities and enjoy the lighter side of the digital universe.

Our cover story this issue departs even further from our usual format, but, as befits a magazine with spiritual roots in KSAN's glory days and other occasional manifestations of free-form radio, we tend to prioritize the interesting over the format-fitting every time.

So we hope you enjoy our visit with musician Neil Young, in which he talks about family fun and his efforts to make electric trains as exciting to new generations as they were to us Boomers and our forebears. We usually have fun doing our cover stories, but this one exceeded our expectations considerably.

This issue also includes lots of stories about products and activities for entertainment and home-office use, including a visit to Knowledge Adventure in La Crescenta to find out what's new in the world of interactive education.

Watch for our next special issue, the Annual California Dealers Guide, which will appear at a distribution site near you around December 12. Then, right after New Year's, we'll bring you the MicroTimes 100, our annual list of movers, shakers, and sometimes-unnoticed contributors to the computer industry of 1994. That issue, in addition to our usual features and columns, will include a veritable feast of opinion pieces: Rich Karlgaard at Forbes ASAP on the IQ debate as it relates to personal computers, science fiction writer Bruce Sterling's recent address at a law enforcement conference, and, by special arrangement with L'Espresso in Rome, a full translation of semiotician Umberto Eco's now-famous column on computer religion.

Once again, we've enjoyed the opportunity to bring you this magazine over the last year, and we look forward to next year. All of us wish all of you the happiest of holidays and a very fine New Year.

—eds.

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BY MARY EISENHART COVER PHOTO: ANNE KNUDSEN
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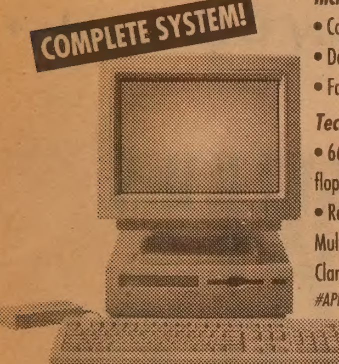
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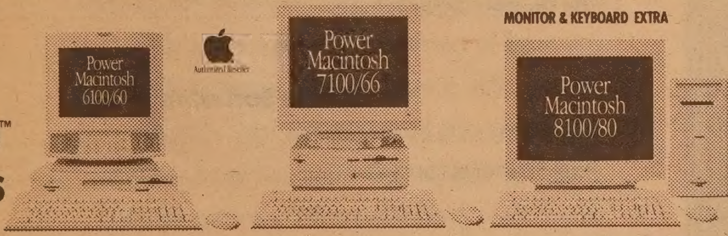

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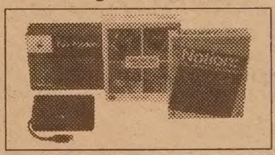

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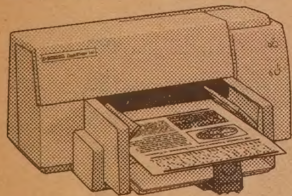

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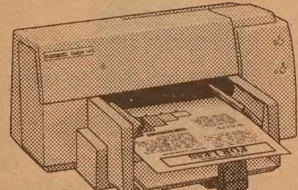

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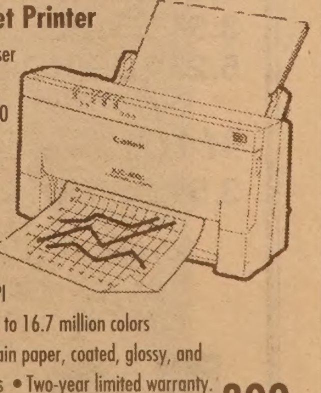

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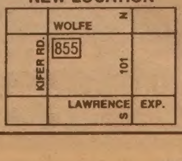

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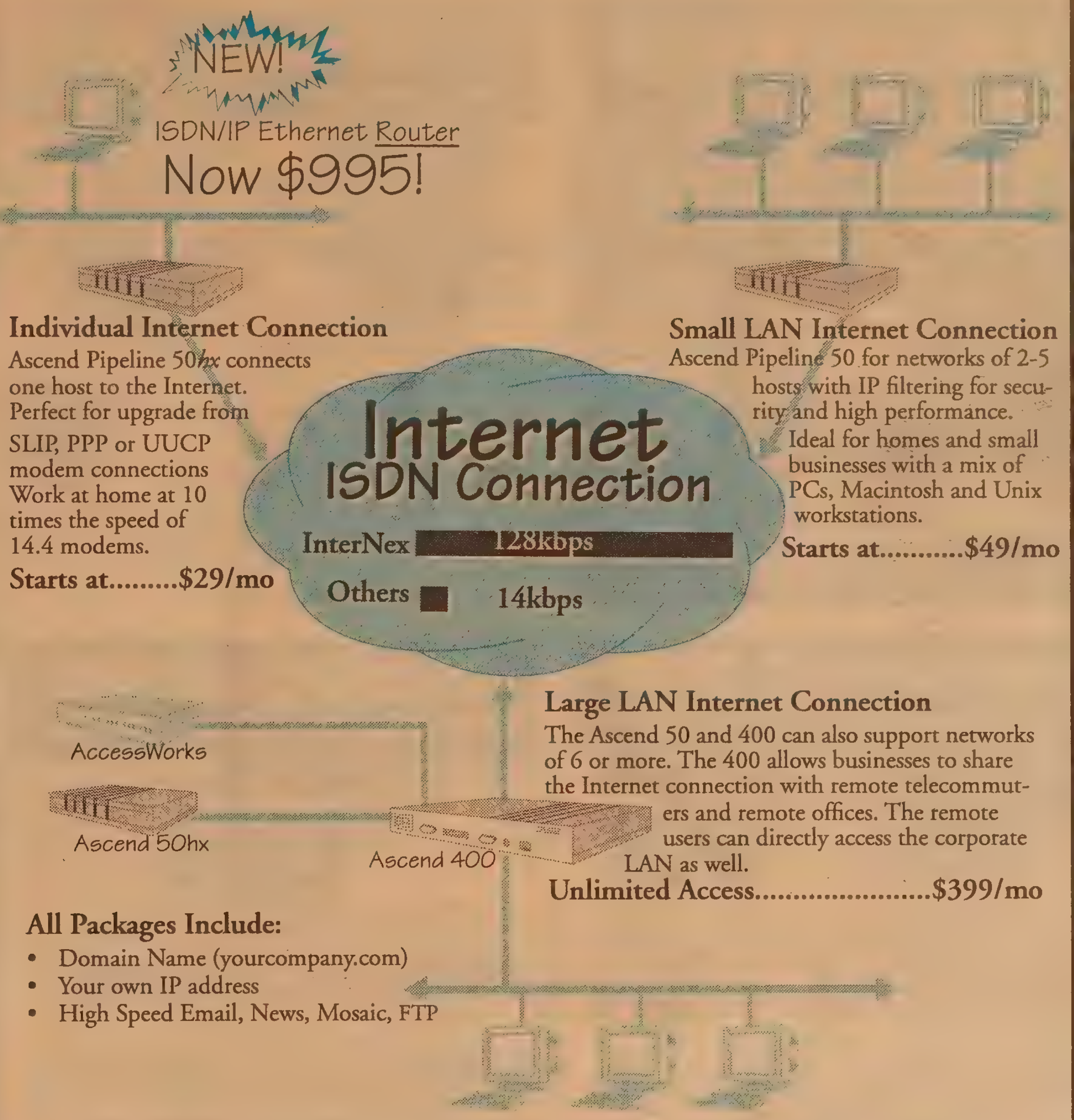

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STANDARD SYSTEM: Motherboard & CPU, 4MB RAM, Desktop or Mini Tower Case, 230 Watt Power Supply, 101 Key Enhanced Keyboard, 2 Hard/2 Floppy Disk 1:1 Controller Card, AMI Bios, 1.2 or 1.44 MB Floppy Drive, 2 Serial/Parallel/Game I/O Ports.

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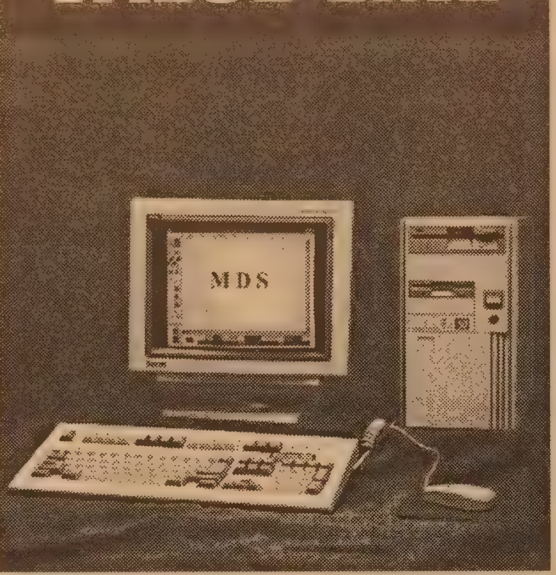

MDS 486 VALUE LINE PC

(4MB RAM/340MB HARD DISK/128K/14")

486SX-25MHz	486SX-33MHz
$795	$805

486DX-33MHz	486DX2-66MHz
$925	$955

- Intel 486SX/DX/DX2 Processor
- 486 ISA/VLB 128K Motherboard
- 3VLB & 7-16 Bit ISA Slots
- 4MB RAM (SIMM 1MBx3-70ns) Exp to 64MB
- Teac 1.44MB (3-1/2") Floppy Drive
- 340MB IDE Hard Drive
- 16-Bit IDE Controller Card w/2S/1P/1G Ports
- Trident 8900d SVGA Display Card w/1MB
- 14" Color SVGA Monitor (1024x768, .39mm)
- Mini Tower Case w/220 Watt Power Supply
- 101 Enhanced Keyboard
- MDS Serial Mouse w/Mouse Pad

MDS 486 VLB VALUE LINE PC

(4MB RAM/420MB HARD DISK/256/14")

486DX-33MHz	486DX2-66MHz
$975	$1095

- Intel 486DX/DX2 Processor
- 486DX 256K VLB M/B w/Pentium Zif Socket
- 3 VLB & 7 16 Bit ISA Slots
- 4MB RAM (72-Pins SIMM-70ns)
- Teac 1.2MB (5-1/4") & 1.44MB (3-1/2") Floppies
- 420MB IDE Hard Drive
- 32-Bit VLB IDE Controller
- 32-Bit VLB SVGA Card w/1M Dram
- 14" Non-Interlaced SVGA Monitor (1024x768, .28mm)
- Middle Tower Case w/250 Watt Power Supply
- 2 Serial, 1 Parallel & 1 Game Ports
- 101 Enhanced Soft/Click Keyboard
- MDS Serial Mouse w/Mouse Pad

MDS 486 VLB WIN STATION

(8MB RAM/420MB HARD DISK/256/15")

486DX2-66MHz	486DX4-100MHz
$1495	$1798

- Intel 486DX/DX2 Processor
- 486DX 256K VLB M/B w/Pentium Zif Socket
- 3 VLB & 7 16 Bit ISA Slots
- 8MB RAM (72-Pins SIMM-70ns)
- Teac 1.2MB (5-1/4") & 1.44MB (3-1/2") Floppies
- 420MB IDE Hard Drive
- 32-Bit VLB IDE Controller
- Diamond Stealth 64 WIN Accelerator w/1MB DRAM
- 15" Non-Interlaced Flatscreen Monitor (.28mm)
- Middle Tower Case w/250 Watt Power Supply
- 2 Serial, 1 Parallel & 1 Game Ports
- 101 Enhanced Soft/Click Keyboard
- MDS Serial Mouse w/Mouse Pad

MDS MULTIMEDIA-75MHz

(8MB RAM/420MB HARD DISK/256K/14")

486DLC-75MHz

$1505

- IBM Blue Lightning Chip w/Math Co-Processor
- 486 SLC-75 256K VLB w/Pentium ZIF Socket Motherboard
- 2-VL-Bus & 7 16 Bit ISA Slots
- 8MB RAM (30 or 72 Pins SIMM 70ns) Exp to 64MB
- Teac 1.2MB (5-1/4") & 1.44MB (3-1/2") Floppies
- 420MB Hard Drive
- Built in VLB IDE Controller w/2S/1P/1G Ports
- Diamond Stealth 32 Win Accelerator w/1MB DRAM
- 14" Non-Interlaced Flatscreen Color Monitor (.28mm)
- Mini Tower Case w/250 Watt Power Supply
- 101 Enhanced Soft Keyboard
- MDS Serial Mouse w/Mouse Pad
- MS-DOS 6.2 & Windows 3.11
- Panasonic 563 Int. CD-ROM Drive
- Sound Blaster 16 Sound Card
- Four CD Titles
- Mini Speakers

VESA LOCAL BUS

PCI LOCAL BUS

MDS PENTIUM 60/66 PCI/VLB

(8MB RAM/540MB HARD DISK/256/14")

Pentium 60MHz	Pentium 66MHz
$1955	$2005

- Intel Pentium P5 Processor
- Heat Sink and cooling Fan
- Pentium PCI/VLB Motherboard w/256K Cache
- 2 VL, 5 ISA & 4 PCI Bus Slots
- 8MB RAM (72-Pins SIMM-70ns)
- Teac 1.2MB (5-1/4") & 1.44MB (3-1/2") Floppies
- 540MB SCSI Hard Drive
- NCR PCI SCSI Controller Card
- Diamond Stealth 64 WIN Accelerator w/1MB DRAM
- 14" Non-Interlaced SVGA Monitor (1024x768, .28mm)
- Middle Tower Case w/250 Watt Power Supply
- 2 Serial, 1 Parallel & 1 Game Ports
- 101 Enhanced Soft/Click Keyboard
- MDS Serial Mouse w/Mouse Pad

MDS PENTIUM 90 PCI/VLB

(8MB RAM/540MB HARD DISK/256/14")

Pentium 90MHz

$2245

- Intel Pentium P5 Processor
- Heat Sink and cooling Fan
- Pentium PCI/VLB Motherboard w/256K Cache
- 2 VL, 5 ISA & 4 PCI Bus Slots
- 8MB RAM (72-Pins SIMM-70ns)
- Teac 1.2MB (5-1/4") & 1.44MB (3-1/2") Floppies
- 540MB SCSI Hard Drive
- NCR PCI SCSI Controller Card
- Number 9GXE64 Win Accelerator w/2MB
- 14" Non-Interlaced SVGA Monitor (1024x768, .28mm)
- Middle Tower Case w/250 Watt Power Supply
- 2 Serial, 1 Parallel & 1 Game Ports
- 101 Enhanced Soft/Click Keyboard
- MDS Serial Mouse w/Mouse Pad

MULTIMEDIA UPGRADE KITS

Toshiba XM3401B Int.	Panasonic CR 562 Int.	Plaxter Quad Speed	NEC Triple Speed
(200ms, 300kb/sec) Sound Blaster 16 SCSI-2	(320ms, 300kb/sec) Sound Blaster 16 Basic	(600kb/Sec/150ms)	CDR 510 • 450kb/Sec • 195ms Access Time
$395	$225	$465	$310

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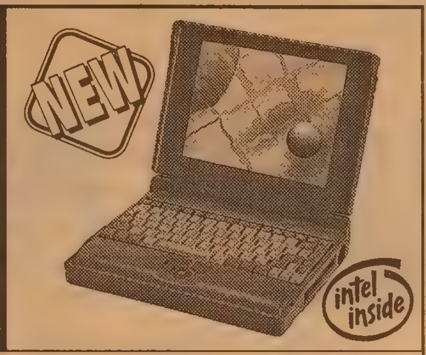
EVEREX STEPNOTE

- Intel SL-Enhanced DX2-50/DX4-75MHz
- 4MB (8MB, 16MB, 20MB, 36MB Optional)
- VL-Bus Win Accelerator w/1MB VRAM
- 9.5" Upgradable 64GS, DSTN or TFT Color
- Detachable 2.5" Hard Drive & 1.44MB Slim Floppy
- Removable 86 Key Keyboard & 20mm Trackball
- Two Type II & One Type III
- Sound Blaster Compatible Audio System
- Ser., Par., PS/2 Mouse, Keybd, EXT VGA, MIC, Line in/out & Dock Ports
- Primary Ni-MH Battery (Secondary Option)
- 90V-265V AC/DC Adapter & 5.3lbs to 6.1lbs w/Battery
- Multi-Purpose Carrying Case

	486DX2-50MHz 4MB RAM/250MB HD	486DX4-75MHz 4MB RAM/340MB HD
64GS MONO	$1725	$2295
Dual Scan Color	$2125	$2635
Active Matrix Color	$3295	$3495

MDS MODEL 9200



- Intel SL-Enhanced DX-33/DX2-66/DX4-100MHz
- 4MB (8MB, 16MB, 20MB, 36MB Optional)
- Award BIOS w/128K Flash ROM
- VL-Bus Win Accelerator w/1MN VRAM
- 9.5" 64GS, DSTN or TFT Color
- 250MB Hard Drive (340MB, 520MB Optional)
- Built-In 1.44MB Floppy & 86 Key Keyboard & 25mm Trackball
- One Type IV Slot (Two Type II/One Type III + One Type II)
- Sound Blaster Compatible Audio System
- Ser., Par., PS/2 Mouse, Keybd, EXT VGA; MIC, Line in/out Dock Ports
- Ni-MH Battery & 90V-265V AC/DC Adapter; 2 Hours Quick Charger
- Multi-Purpose Nylon Carrying Case, 6.6lbs w/Battery

	486DX2-66MHz 4MB RAM/250MB HD	486DX4-100MHz 4MB RAM/250MB HD
64GS MONO	$1625	$2145
Dual Scan Color	$2195	$2595
Active Matrix Color	$3095	$3495

PATRIOT 4000

- Intel SL-Enhanced 486SX-25/33, DX33/66
- 8K Burst Cache Built in, 4MB RAM (8, 16, 20, 32MB Optional)
- 1MB Flash ROM Programmable BIOS
- 32 Bit LB Win Accelerator 1MB RAM
- Supports 1024x768 at 256 Colors, 9.5" Viewable LCD Panel
- Ultra Fast 2.5" 170MB HD (Option: 258MB/344MB/540MB)
- Super Slim 3.5" 1.44MB Removable Floppy, 86 Keys with reverse T
- Extra large 25mm built-in Trackball at center
- 2x Type II Slots or 1x Type III Slot
- Built-in Sound System, MS Sound System and Sound Blaster Compat.
- 1x Ser., 1 Par., 1 Ext., SVGA, 1 Keybd, 1 Dock St. Port, 1 Line in/out, 1 Mic
- Rech., Ni-Cad or Ni-MH Bat., 4-8 hours with dble life tech.
- Auto switching AC/DC adapter, 1.5 hours fast battery charge

	486DX-33MHz 4MB RAM/250MB HD	486DX2-66MHz 4MB RAM/250MB HD
64GS MONO	$1485	$1525
Dual Scan Color	$1955	$1985
Active Matrix Color	$2959	$2995

HARD DISKS

Maxtor 170MB IDE 14ms	$145
Maxtor 270MB IDE 14ms	$185
Maxtor 345MB IDE 14ms	$195
Maxtor 540MB IDE 12ms	$265
Maxtor 270MB SCSI 14ms	$225
Maxtor 345MB SCSI 14ms	$245
Maxtor 540MB SCSI	$295
WD 250MB IDE	$169
WD 340MB IDE	$195
WD 420MB IDE	$215
WD 540MB IDE	$275
WD 700MB IDE	$345
Conner 420MB IDE 14ms	$210
Conner 540MB IDE 12ms	$275
Conner 1.08GB IDE 9.5ms	$565
Conner 340MB SCSI	$235
Conner 540MB SCSI	$299
Conner 1.0GB SCSI	$595
Quantum 270MB IDE 12ms	$185
Quantum 365MB IDE 12ms	$210
Quantum 540MB IDE 12ms	$269
Quantum 730MB IDE 12ms	$405
Quantum 540MB SCSI 12ms	$445
Fujitsu 1.0GB SCSI-II 10ms	$635

MONITORS

Acerview 14" Int. SVGA .39mm	$175
Acerview 14" Int. SVGA .28mm	$220
Acerview 14" NI SVGA .28mm	$245
Acerview 17" NI Flatscreen SVGA .28mm	$645
Viewmagic 15" NI Flatscreen .28mm	$315
CTX 15" NI Flatscreen .27mm	$325
CTX 17650 LR 17" NI Flatscreen .27mm	$650
MAG MX 15F/DX 15F	$475/375
MAG MX 17F/DX 17F	$859/685
NEC 3V 15" 1024x768	$465
NEC 3FGe 15" (1024x768 @60Hz, .28mm)	$565
NEC 4FGe 15" (1024x768 @76Hz, .28mm)	$635
NEC 5FGe 17" (1024x768 @60Hz, .28mm)	$995
Sony GDN 17SE-1 (1280x1024, .25mm)	$989
Sony GDM 20SE(1600x1280, .30mm)	$1855
Viewsonic 15E (1280x1024, .28mm)	$375
Viewsonic 15 (1280x1024, .28mm)	$425
Viewsonic 17G (1280x1024 .27mm)	$745
Viewsonic 17 (1280 x 1024 .27mm)	$875

MOTHERBOARDS

486SX/DX/DX2 w/128K VLB MB	$85
486SX/DX/DX2/DX4 w/256K VLB MB	$105
Super Pentium 60/66 PCI/VLB w/256K	$235
Super Pentium 90 PCI/VLB w/512K	$295
386DX-40 CPU + MB w/64K	$105

FLOPPIES

Teac 1.44MB 3 1/2"	$39
Teac 1.2MB 5 1/4"	$52

CASES

Baby AT Desktop case w/200W PS	$42
Mini Tower case w/230W PS	$42
Middle Tower case w/230W PS	$72
Full Tower case w/230W PS	$95
Full Tower case w/300W PS	$135

CD-ROM DRIVES

Panasonic 562 Int. (320ms) w/CRTL	$135/155
Toshiba XM 3401B SCSI Int. (200ms)	$245
NEC CDR 510 Triple Speed Int. SCSI (195ms)	$299
NEC 3XI Triple Speed Int. SCSI (195ms)	$425

SOUND CARDS

Sound Blaster Pro	$85
Sound Blaster 16	$103
Sound Blaster 16 MCD w/ASP	$110/155
Sound Blaster 16 SCSI w/ASP	$165/199
Sound Blaster AWE 32 Value Edition	$235
Sound Blaster AWE 32	$275

SPEAKERS

JS 520 AV	$75
JS 590 AV 110Watt	$85
Media 750 Speakers	$65
EP-280 Amp Speakers	$49
CP-18 Mini Speakers	$29

CONTROLLER CARDS

16 Bit IDE CTRL w/2S/1P/1G	$15
16 Bit IDE CTRL w/2S/1P/1G (16550UART)	$25
32 Bit IDE VLB CTRL w/2S/1P/1G	$25
32 Bit IDE VLB CTRL w/2S/1P/1G (16550UART)	$35
AHA Adaptec 1522 SCSI w/Kits	$135
AHA Adaptec 1542 CF SCSI w/Kits	$250
AHA Adapatec 2742 EISA SCSI w/Kits	$359
AHA Adaptec 2842A VLB SCSI w/Kits	$259
AHA Adaptec 2940 PCI SCSI w/Kits	$289
NCR PCI SCSI Ctrl	$75
Acculogic PCI Enhanced IDE Ctrl	$55

TAPE BACKUPS

Colorado 250MB Int.	$165
Colorado 250MB Ext. Trakker	$335
Conner 250MB Int.	$155
Conner 420MB Int.	$215

FAX MODEMS

SmartLink 14.4/14.4 Int. w/WinFax Lite	$85
Zoltrix 96/24 Int.	$38
Zoltrix 14.4/14.4 Int.	$75
On-Line 14.4/14.4 Int.	$75
US Robotics Sportster Int. 14.4/14.4	$109
US Robotics Sportster Ext. 14.4/14.4	$125
US Robotics Sportster Int. 28.8/28.8	$199
US Robotics Sportster Int. 28.8/28.8	$235
Megahertz 14.4/14.4 PCMCIA Fax MD	$195
Exp 14.4/14.4 PCMCIA Fax Modem	$165

VGA CARDS

Diamond Stealth 64 VLB 1MB/2MB DRAM	$179/229
Diamond Stealth 64 PCI 1MB/2MB DRAM	$179/229
Diamond Stealth 64 VLB/PCI 1MB/2MB VRAM	$339/499
Diamond Viper SE VLB 2MB/4MB VRAM	$389/529
Diamond SpeedStar Pro 1MB DRAM ISA	$125
ATI Ultra Pro 2MB VRAM VLB/ISA	$285
ATI Ultra Pro Turbo 64 2MB VRAM VLB/PCI	$389
ATI Ultra Pro Turbo 64 4MB VRAM VLB/PCI	$619
#9GXe 64 PCI/VLB 1MB/2MB DRAM	$175/245
#9GXe Pro PCI/VLB 2MB/4MB VRAM	$349/499
Trident SVGA 9000 512K	$39
Trident SVGA 8900 1MB DRAM	$59
Trident 9400 VLB 1MB DRAM	$65

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Contributors
MICROTIMES

Before we get to acknowledging our regular, fine contributors, we'd like to thank a number of people who have made this issue's cover story possible:

- **Neil Young**, for talking to us and having interesting stuff to say.
- **Elliot Roberts** and his sterling crew at Lookout Management, for much logistical assistance.
- **Bruce Koball** (whom alert readers will recognize as the chairman of 1993's Computers, Freedom & Privacy conference), who wrote the "Liontech Skunkworks" sidebar and has worked extensively on Liontech projects. Bruce is an engineering consultant with Motion West in Berkeley.
- **David (Rudy) Trubitt**, who wrote the "Recording Rail Sounds" sidebar. David is an audio engineer and free-lance writer who's also been extensively involved with the Rail Sounds project. He's also frequent contributor to Mix, Electronic Musician, and other pro-audio publications.
- **Sherrie Weitzman**, director of marketing services at Lionel, who was extremely helpful in connecting us with assorted info and resources, including...
- **Russ Larson**, publisher of *Classic Toy Trains*, who graciously allowed us to use his magazine's original photos of Neil Young's train layout. Russ cordially invites interested parties to call the magazine's 800 number, 1-800-533-6644, for a free copy of the brochure, *Introduction to Model Railroading.*

Thanks to all these folks, who have made this rather unusual project a real joy.

—ME

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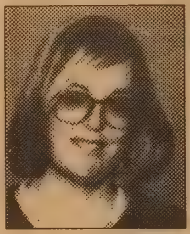

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HIGH POWER PENTIUM P5 PCI

- Intel Pentium 90/66MHz processor
- Intel Neptune Chipset
- CPU cooling fan
- 256K SRAM Cache
- 16MB RAM Expandable to 128MB
- 1.44MB Floppy Drive
- 1.0GB SCSI Hard Drive
- Adaptec 2940 PCI Wide SCSI Controller
- 2-16550 High Speed Serial, 1 Parallel Port
- Diamond Stealth 64 PCI SVGA w/2MB VRAM
- 17" 1280x1024 SVGA Monitor, 0.28 NI
- Full Tower Case w/250W P/S
- 101 Key Enhanced Keyboard
- High-Res Mouse
- MS DOS 6.22 & MS Windows 3.11 w/Manual

P5-90MHZ $3445　**P5-66MHZ $3295**

PCI SYSTEM NEW TECHNOLOGY

- Intel 486 PCI w/Cooling Fan
- 256K Cache Expandable to 512K
- 8MB RAM Expandable to 128MB
- Intel Saturm PCI Chipset
- 1.44MB Floppy Drives
- 540MB SCSI II Hard Drive
- NCR PCI SCSI II Controller
- 2-16550 High Speed Serial, 1 Parallel Port
- Diamond Stealth 64 PCI w/2MB DRAM
- 15" 1280x1024 SVGA Monitor 0.28 NI
- Mid Tower Case w/230W P/S
- 101 Key Enhanced Keyboard
- Hi-Res Mouse
- MS DOS 6.22 & MS Windows 3.11 w/Manual

DX4-100 $1995　**DX2-66 $1695**

COMMANDLINE PREMIER

- 486 VLB Green System
- Intel Pentium Over-drive (ZIF Socket)
- 256K SRAM Cache
- 4MB RAM (72PIN) MAX 64MB
- 1.44MB Floppy Drive
- 420MB IDE Hard Drive
- 32 Bit VLB IDE Controller
- 2 Serial, 1 Parallel,& 1 Game Port
- 32 Bit VLB Window Accelerator w/1MB
- 14" 1024x768 SVGA Monitor 0.28 NI
- Mini Tower Case w/230W P/S
- 101 Key Enhanced Keyboard
- Hi-Res Mouse
- MS DOS 6.22 & Windows 3.11 w/Manual

EPA POLLUTION PREVENTER

DX4-100 $1425　**DX2-66 $1125**

Multimedia Packages

PANASONIC 562B CD-ROM　$295
- Double Speed
- Sound Blaster Basic 16
- 2 Speakers
- 6CD Titles

TOSHIBA 3401B CD-ROM　$495
- Double Speed
- Sound Blaster SCSI II Sound Card
- 2 Speakers
- 6 CD Titles

NEC CDR 510　$595
- Triple Speed
- Sound Blaster SCSI II Sound Card
- 2 Speakers
- 6 CD Titles

The 6 CD Titles:
- Groller Encyclopedia
- World Atlas
- Animals
- Mavis Beacon Typing
- U.S. Atlas
- Chessmaster 3000

NP9200 - THE FASTEST 486 MULTIMEDIA NOTEBOOK

- VLB, 1MB Video RAM
- 128KB Secondary Cache
- Removable Hard Drive
- Built-in Audio Chip, MIC & Spkr.
- Record, Compress, Store & Playback
- Extra Large NiMH battery
- 25mm Built-in Extra Large Track-ball

NP9200	Moro	Dual Scan	Active Color
486DX-33	$1525	$2015	$2815
486DX2-66	$1595	$2095	$2895
486DX4-100	$1895	$2395	$3195

- VESA Local Bus Video Display with Windows Accelerator
- 4MB RAM exp. to 36MB
- 250MB HDD
- 340/520MB optional
- 3.5" FDD
- 9.5" VGA Display
- Simultaneous CRT & LCD operation
- Up to Type IV PCMCIA card slots
- Ports for 1S,1P, Key-board & Monitor
- 1 Line-in, 1 Line-out & 1MIC. jacks
- Carrying Bag & AC adapter
- VLB Docking station optional
- Sound Blaster & Microsoft Windows Sound System Compatible

NP3600 - THE ONLY PENTIUM LOCAL BUS NOTEBOOK

- Sound Blaster & Microsoft Windows Sound system compatible
- 250MB HDD, 340/520MB optional
- 3.5", 1.44MB FDD
- 9.5" 640 x 480 VGA display 256 colors CRT: 1024 x 768 256 colors
- Simultaneous CRT & LCD operation
- Built-in audio chip, MIC. & speaker
- 1 PCMCIA type III & type II / slots
- 1 Parallel Ports with ECP / EPP support
- 1 Line-in, 1 Line-out & 1MIC. jacks
- Carrying Bag & AC adapter
- VLB Docking station optional
- Carrying bag & AC Adapter

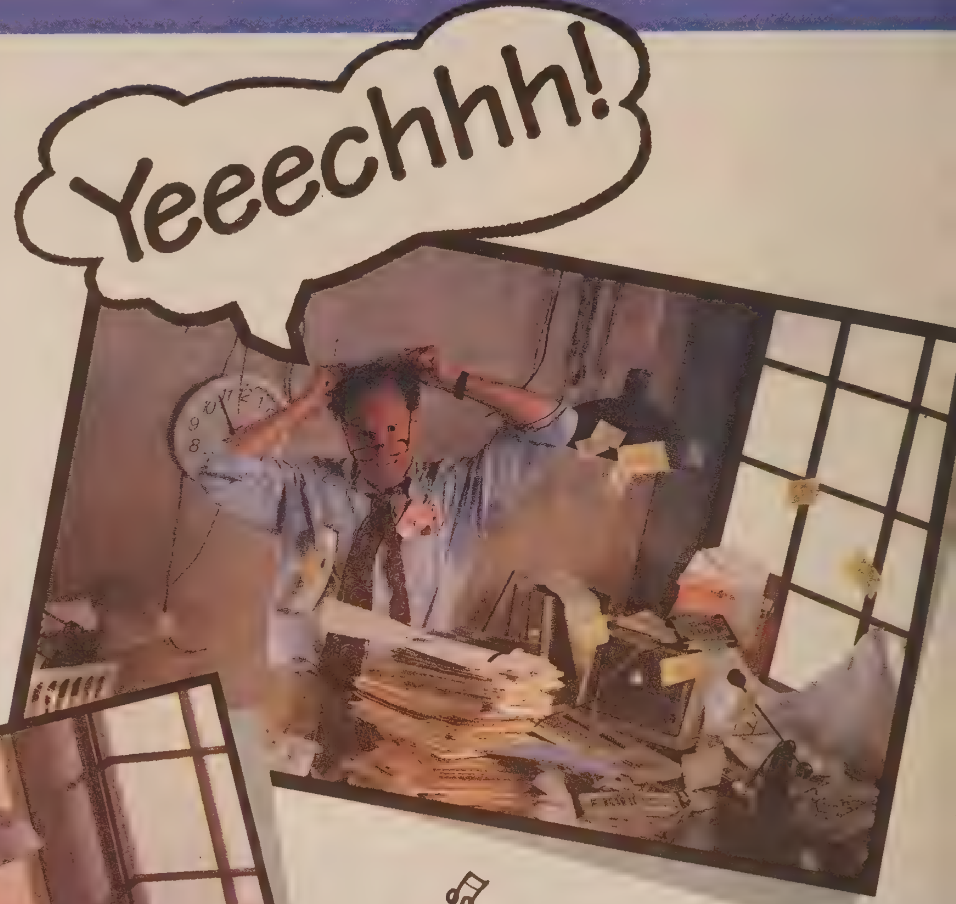
	250MB	340MB	520MB
NP3650 D Pentium-60 Dual	$2595	$2675	$2825
NP3656 D Pentium-66 Dual	$2765	$2845	$2995
NP3650 T Pentium-60 Active	$3395	$3475	$3625
NP3656 T Pentium-66 Active	$3550	$3630	$3780

- 32Bit Local Bus IDE, Improved data transfer rate of up to 45%
- 8MB RAM Exp. to 40MB
- 1 16C550 Compatible Serial Port
- VLB, 1MB Video RAM
- 32Bit VLB Video w/Windows, MIC & Spkr.
- Removable Hard Drive
- 25mm Built-in Extra Large Track-ball
- 46Watt MiMH Battery

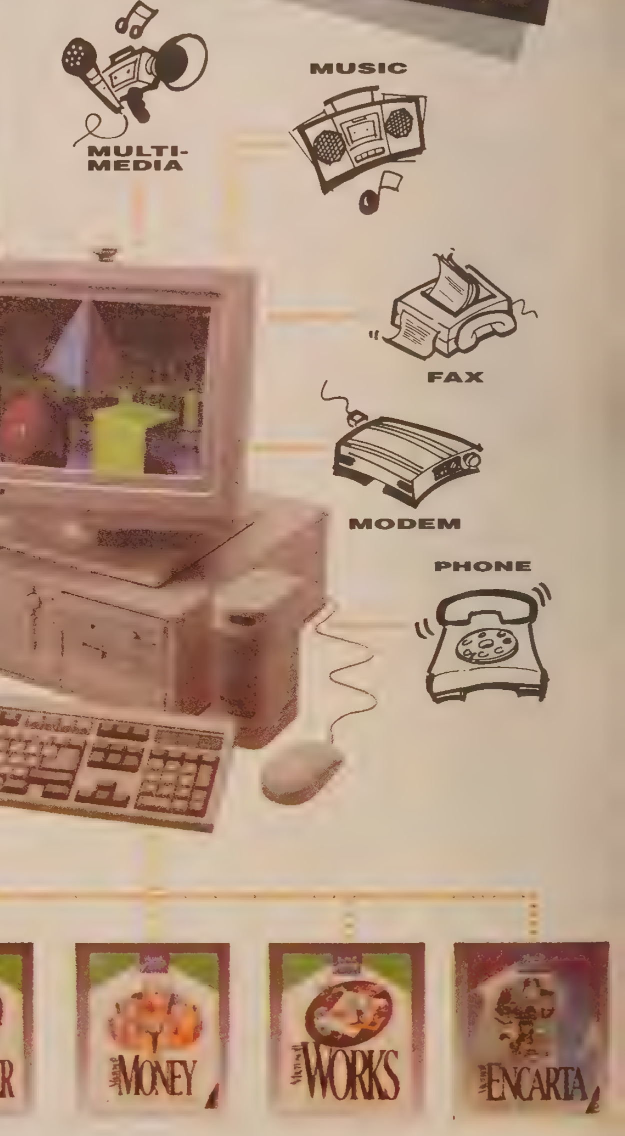
The Adventures of

MILO

Minutes before deadline, Milo finds himself in a perilous situation...the phone rings out of control, the fax is out of paper, unanswered messages pile up, the modem line is busy & Betty is still at lunch.



The next day, Milo finds himself in synch with his Intelesys system, in total control and ready to handle the next challenge... as soon as Betty gets back from lunch.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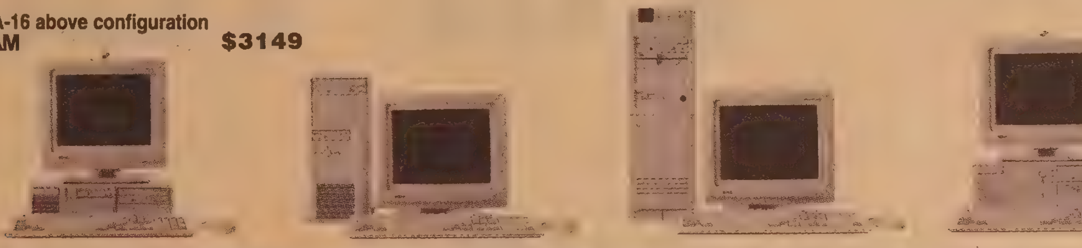

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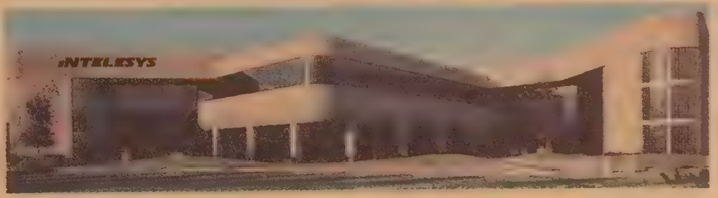

A Hi-Tech Playground For Kids

By Pamela Mason

SIGkids Teaches Kids About State-Of-The-Art Computer Technologies And The Many Ways They Can Use It

SIGkids, a mini conference within the annual SIGGRAPH conference, showcases the various multimedia, virtual reality, educational, and artistic projects that kids have worked on with their adult mentors during the year and serves as the link between the computer industry and the classroom.

SIGGRAPH, an acronym for Special Interest Group GRAPHics, is part of the Association for Computing Machinery, or ACM, which sponsors this conference for the computer graphics industry each year. SIGGRAPH '94 was held in Orlando, Florida, in July, and next year everyone will be traveling to Los Angeles for SIGGRAPH '95.

The goal of SIGkids is to teach kids about state-of-the-art computer technologies and the many ways that they can be used. They are encouraged to work with multimedia tools and to explore the Internet. Educators, with the help of industry mentors and researchers, create special projects for their students throughout the school year. The projects are submitted to SIGGRAPH and a number of these are chosen to then be displayed by the students and teachers at the conference.

SIGkids consists of several areas. Cyberpark is a type of virtual studio/playground where kids can converse, conceptualize, and share ideas on the Internet and through email or explore the technologies hands-on. For example, a group of students built virtual worlds complete with interactive joystick and 3-D shutter glasses controls. In another area, kids show and explain their projects from booths much like those seen at any trade show. There were various courses and an art show. This year featured the first SIGkids International Animation Festival for elementary and secondary students. The Festival, planned to be an annual event, is the counterpart to SIGGRAPH's Electronic Theater, a night at the movies where the year's best work is presented.

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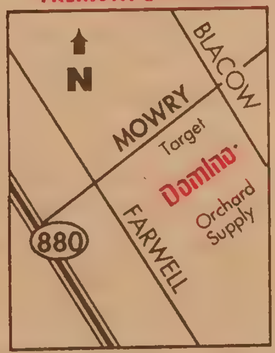

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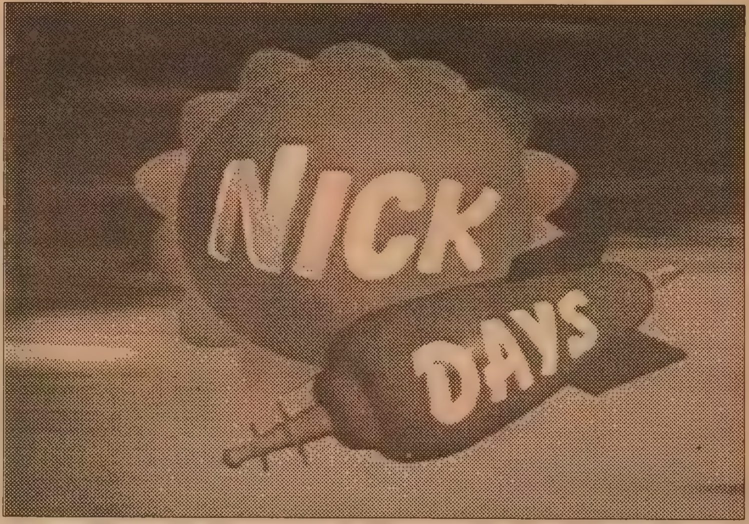
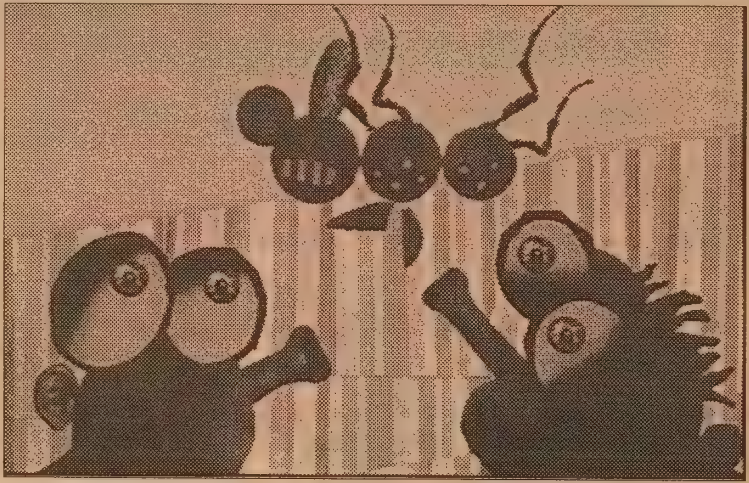
Sig Kids *continued*

About two hundred kids were chosen to participate, and over one thousand children of SIGGRAPH parent-attendees visited SIGkids this year. High-pitch squeals of laughter occasionally rose above the drone of the crowd. A boy ran up and tugged at his pal's arm, "C'mon, they're doing an interactive story on the MBONE [the multimedia backbone of the Internet], and we're all working on a painting." Kids from all over the US were part of a collaborative networked painting project.





top to bottom: Nick Days logo courtesy Nickelodeon, From the Nick Day "Insect Appreciatioon Day", courtesy Nickelodeon.

Project Unique

In one of the booths, picture books called, Stories From Our Lives were displayed. The students who created these books attend Rochester, New York's School 36, a diverse elementary school with kids from Central America, Somalia, Yugoslavia, and Russia. Teacher Alicia Van Borsumm worked with the Rochester School District's "Project Unique" director, Karen Wieder and artist-in-residence Stephen Jacobs, to initiate the program designed to teach ESL (English as a Second Language) students about story conceptualization and writing.

By publishing and creating their own "picture books" the students gained a better understanding of the English language, learned how to use the computer to communicate visually, and improved their writing skills. Alexsandra Yatsushkevech, a girl from Russia, told a story called "Hole in Her Heart," her own story about coming to the United States to have an operation to fix her heart.

The children would first write their stories in longhand, then enter them into the computer where they would edit the story together with their teacher. For the corresponding pictures, they created and printed images using a paint program. Using a HyperCard-like multimedia authoring software package called Kid's Studio, they merged the text with the images and added an audio track. Stephen Jacobs said, "Not only can we teach the kids how to paint on the computer, we teach them how to make two kinds of books: analog and digital, using both the traditional and computer-generated methods of publishing. At the end of the project they have a printed book with a disk sleeve on the back holding the disk of their stories, combining narration, text, and images in the form of QuickTime movies."

Backyard Multimedia

A company called Backyard Multimedia, a new producer of interactive, educational software, sprang from the collaboration with Project Unique. Stephen Jacobs was completing his MFA in animation at the Rochester Institute of Technology at the same time that he was working on this project. He elicited his classmates' help in creating a Macromedia Director stack that consisted of a library of all the students' QuickTime movies, the teachers curriculum for teaching the course, and a documentary of the whole project from start to finish. Jacobs explained, "We have put together this CD-ROM because we know how hard it is for teachers to get technology into their classrooms. This is proof of what can be accomplished by one teacher and it is helpful for teachers seeking financial funding, as it exemplifies the need for investing capital in computers and software. It is also a tangible piece that shows the true educational value of this type of project."

Nickelodeon Nick Days

Nickelodeon believes that for kids, every day should be a holiday, so they've created "Nick Days," which are thirty-second promotional spots celebrating a different holiday every day: Eat Blue Food Day, Repeat Repeat Day Day, and so on. At SIGkids this year, each day a different group of kids participated in the production of a new spot. "We are very excited about utilizing the forum of SIGGRAPH to teach interested SIGkids about the rapidly advancing technology in animation," said Scott Webb, senior VP/creative director, Nickelodeon, Nick at Nite.

At the entrance to Nickelodeon's booth sat an easel that outlined the steps in the production process that the kids would follow to create a Nick Day:

1) have a production meeting
2) digitize audio
3) scan artwork
4) cleanup artwork
5) create the animation
6) render the animation and
7) perform off-line editing to mix the sound with the animation

Nick Days animations are created on aMacintosh Quadra 950 using Macromedia Director. Craig Hibbard, of Nickelodeon's art department, was manning the booth and said, "My shoulders are tired from the kids climbing up on them because they get so excited!" He further explains, "I teach the kids about the production process, how to do cut-out, stop-motion puppet animation. This is the method where the legs and arms on a character move separately from the body. They learn about concepts like compositing and anti-aliasing. The cleanup process we do in Adobe Photoshop, after scanning in the images, teaches them how to ensure that color and motion are broadcast legal. They put it all together, drop it into a twenty-six second 'donut' [a pre-existing piece that all the Nick Days start and end with], and finally, at the end of the day, we use Adobe Premiere to make the finished piece: a QuickTime movie, complete with sound." On the following day their production is displayed on a large monitor at the entrance to the SIGkids exhibit.

High School Animators

High School students benefit from teacher Kevin Gouvia's experience as a former television producer. He now teaches at Lyman High School in Longwood, Florida. Gouvia tells his students, "It takes three things to succeed at 2-D cel animation–the three P's: patience, planning, and persistence."

The kids use the Amiga, Video Toaster, Macs, and PCs in their animation process and a wide variety of software packages including Hash Inc.'s Animation Master, Autodesk Animator Pro, Lightwave 3D, and Pixar Typestry.

The students create characters by drawing their movements in pencil onto paper attached to a traditional peg bar setup. This is a registration device, much like a three-hole-punch. Next, they trace these drawings with a digitizer into the computer to create video pencil tests. A video pencil test is a recording of all the drawings in sequence, that when played back tests motion and is used as a tool to see where adjustments in speed and timing need to be made to improve the animation. Student Alex Carcerel sums up the lure of animation quite succinctly by saying, "It's a lot of work but it's all worth it when you see it move."

Recently, one of Gouvia's students, Chad Adams, still a freshman, was taken on as an intern at Metrolight Studios in Orlando, (which recently did the special effects for the movie, *True Lies*). The whole class is currently involved with two projects:

continued on page 333

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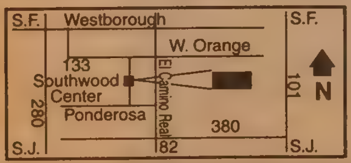

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Neil Young arrives for our interview, cruising into the parking lot of the cafe on Skyline at the wheel of a venerable 1950 Plymouth, its engine purring silkily, its chrome sailing-ship hood ornament catching the afternoon sun.

When the Plymouth was in its youth, electric trains, with Lionel at the forefront, were the high-tech toy of the day. Indeed, the computer industry as it now exists had roots in the train hobby; according to Steven Levy in his classic *Hackers: Heroes of the Computer Revolution*, the first people who decided to do something interesting and nonstandard with the primitive computers of the '50s were the wizards of MIT's Tech Model Railroad Club.

For a number of reasons, technology and the toy business passed the train hobby by, and for the last couple of decades it's been largely the province of dedicated but aging enthusiasts. Today, though, Young is here to discuss his plans to change all that. The CAB-1, the first-ever wireless remote control for electric trains, is the first commercial product developed at Liontech, his joint venture with Lionel owner Richard Kughn, and it's about to hit the dealers' shelves. Waiting in the wings are smart trains with onboard microprocessors and digital sound—toy trains with the look, feel, and sound of real ones.

Neil Young's technical interests have long paralleled his musical pursuits. A dedicated tweaker of sound equipment, he began seriously tinkering with electric trains in the course of introducing his son Ben to his own childhood hobby. "He learned how to play with trains when he was about two years old," says Young. "He needed special buttons, because he has disabilities, so he started with buttons and things like that that I would make for him. I really got off on making these buttons, but there was still just the same technology, with a button stuck in the line somewhere to either discontinue it or interrupt the power or turn it back on. I didn't really have much control."

In the course of making his ever-growing train layout (recently featured in a cover story in *Classic Toy Trains*) more accessible to Ben, and later his fellow students at the Bridge School (a Peninsula school, cofounded by Young's wife Pegi and Dr. Marilyn Buzolich, where innovative technology helps kids work around severe physical disabilities), Young developed an ever-growing wish list of what train sets, essentially unchanged since the '50s, should be able to do.

"I had this concept for a long time," he says, "the idea of a controller controlling the whole environment. The lights, the action, the accessories, the switching, the routes that the things go. The speed of the individual trains. The lights on them, all the sounds. Everything."

Fervor, zeal, and persistence of vision kept him going on an R&D project that no sane toy company would even contemplate. And one day in 1992 he paid a visit to Lionel.

"I met them and talked to them. I said, 'I'll build a prototype and bring it in and show it to you, because I don't want to just sell you an idea, I want to show it to you.' Obviously building a prototype for this thing was quite an undertaking because it had to work; you had to prove in some way that you could do this hand-held controller thing with no wires and control the layout. So I made a very primitive version of it, with a development company called RDL here in Menlo Park."

Demo-day came. "I had a huge barn in the middle of the table with a couple trains running on it; the barn was a storage shed/repair shop for trains. It had a big door on it. When I hit a certain button, the door would open; it made this huge rattling sound and crashed when it hit the top. And then the engine came out, pulling the hand-held controller on a flatcar behind it.

"It was really like a Hollywood production, but they went nuts when they saw that. I was just showing them the secret of what I think is the magic of playing with things, which is feedback—when you initiate a command, you have to have feedback."

Young has an infectious excitement about making train sets, the virtual worlds of a bygone era, accessible and inviting to a new generation. And their benefits, he says, go far deeper than mere entertainment.

"You'd be surprised," he says, "how much of an association with healing there is with trains. There's a lot of train sets in hospitals, where kids go and play with the trains. Down at the clinic at Stanford they have a train layout that you can push buttons and watch and play with. In Boston, at another kids' hospital, there's a huge layout that's accessible to all the kids with disabilities; in Chicago there's another group that specializes in building train layouts for disabled people.

> I built feedback into the whole system, so if a kid couldn't see, he could hear. When you hit a certain button and the train slows down, the brakes screech, and there's all kinds of things that happen to let you know you've done something.

"There's a new movie by Spike Lee that's coming out—this guy is a criminal, I don't know what he does, like a murderer or a robber or something. He's bad. But he does these terrible things, and then he goes home and plays with his trains, to forget and to get away from what he is, what he's doing.

"It's a great escape—you can create a world, and then you can control it. People just get lost in it." (Lionel, 313/949-4100; *Classic Toy Trains*, 1-800-533-6644)

How did you get into trains?

When I was a kid I had trains. My dad bought me some, and then in 1977 or '78 I kind of started getting into them again.

I was out shopping for Christmas gifts, and I found an old train in this antique shop. It kind of got me started on what a cool thing they were—a little mechanical thing. Right away I started thinking about what would be cool—"if this could happen, and all of these things that were on it worked..."

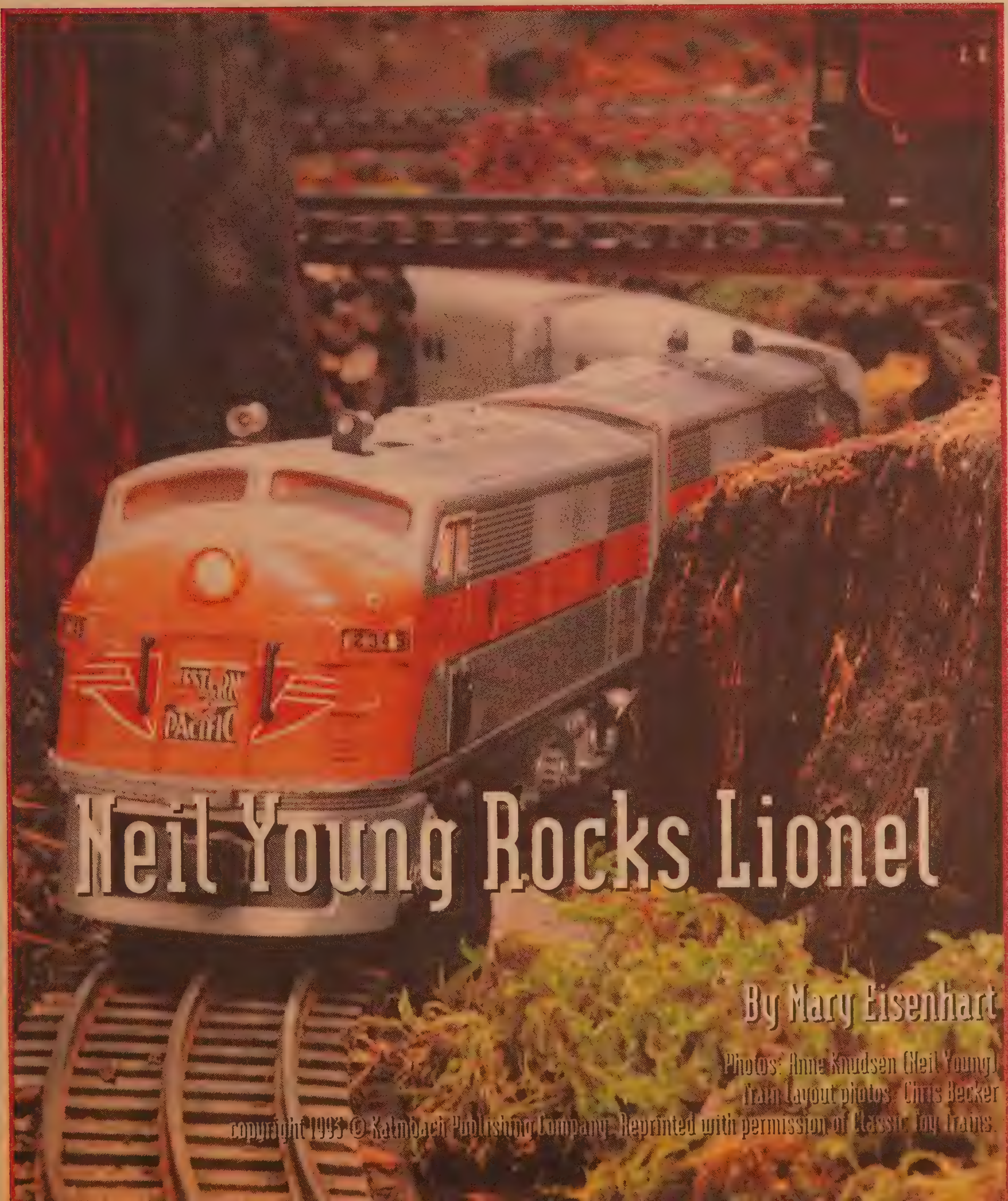
I wanted to develop some kind of a system to control the trains so that they could do everything that you could imagine that they should be able to do.

In the '50s, Lionel as a toy company was really on the cutting edge with technology. Remote control—press a button and this happens—which was pretty good for the '50s.

And then they sort of went into a decline, as I recall—the HO scale got more popular...

The whole hobby kind of slammed into a decline, and then slot-racing cars came along. HO trains came along real big. People were making less money and it was not going as far as it used to. There were smaller places to live...

Electric Trains For The 21st Century



Neil Young Rocks Lionel

By Mary Eisenhart

Photos: Anne Knudsen (Neil Young)
Train Layout photos: Chris Becker

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> Digital technology's great for toys, and fantastic for news, incredible for archives, unbelievable for controlling things. But if you really want to get down to the real thing, when you go digital you lose it.

So you couldn't just set up a big old train set...

Yeah, right. It wasn't easy to find a place big enough.

So a lot of things kind of converged to make the hobby kind of obsolete, or make it so you used smaller trains. It became not fashionable—you know, when jets became fashionable, and trains were kind of out?

Trains used to be kind of like the rockets—it was the fastest way to get around, the most modern transportation. At that time, trains were news.

That kind of died, and the whole thing kind of went away, except for some diehards who stuck with it, stayed and collected trains and played with them. Reliving their youth with them, and trying to show their kids the same thing that they enjoyed with their parents. Trying to pass it down from generation to generation.

But the technology was so far behind that the children wouldn't be interested. They're not interested in something where you have to stay in one place to operate it, and everything is like an antique. Kids just don't understand playing with antique toys. They don't understand it. It's not attractive. It's not nearly as stimulating.

So I wanted to develop something that would give it that play value, that newness to it. Some modern type of control system.

I still kept thinking about how cool it would be to make it really work, so over the period of about fifteen years I devised a kind of a blueprint for what I wanted. It really took a long time, because like any engineering thing it's very deep. It's really a lot of detail, more than you would think.

A lot of interdependencies.

Yeah, there's a lot to it. That's why it's so fascinating; that's why I've got all these great engineers working with me, because it is a fascinating thing to do. It's got a lot of depth to it.

The overall goal is to make an advanced toy that brings families together, in a way that video games don't. Video games are a very solitary, secluded, me-against-the-machine kind of thing, and I'm trying to use technology to make a toy that kind of stimulates a family situation. At least a father-and-son situation, maybe a whole-family situation.

You create these scenes—you make scenery, or, depending on your artistic tendencies, you create a situation that the trains live in. Then the technology takes over, and you control the whole thing from these hand-held controllers, like video controllers.

It takes it to a whole new level—you can interact, and there's all kinds of games that you can get into playing, just figuring things out, solving problems, stuff like that. It really makes people work together, which is what I really like about it.

My son and I have spent many happy hours in there, and now the kids at the Bridge School come down and check it out every once in a while. This year we're hoping to have them down two or three times over the school year, just to come down and play with them. Especially the kids just beginning to learn how to use computers to communicate—the cause and effect is so reinforced with this toy.

You push this button and something happens.

Yeah, right. It's designed so that you can change the function of the external switch. Any kind of switch can be accessed into this controller, and whatever you initiate on the controller, the switch will mimic it.

You can change the function of the switch instantaneously, so it fosters interaction between a two- or three-year-old and a parent—you can say, "You want to blow the horn?" and the kid says yes, or you blow the horn once, and after that the kid can blow the horn as many times as he wants. You can constantly change whatever the switch does, instantaneously.

Kinda like a programmable remote?

Yeah, it's like a remote control, and whatever you do on it, the big switch will mimic it. It makes it possible to move around—it's all wireless so you can share the thing with a little kid, or in our case with a disabled person. Lionel is on the cutting edge in this instance—they've made a toy that's accessible. It has an input for people who haven't got fine motor control to choose their input and plug it in, and whatever they do will make things happen.

That's really cool. That's a lot of fun, to be involved in something like that.

I built feedback into the whole system, so if a kid couldn't see, he could hear. When you hit a certain button and the train slows down, the brakes screech, and there's all kinds of things that happen to let you know you've done something. If you can't see it, you can hear it. In some cases I've married the two things, so you hear and see them in synchrony, which is really magic—you've got real control of the event.

So where do you get these sounds from?

We get them from the real trains. We go out and record them digitally with an 8-track DAT, then we bring them back to the lab and break them down into samples. We push it into a chip—we've got a program that spits out information based on the speed and condition of the train and the input from the user.

The controller in your hand talks to a chip inside the engine?

Yeah.

It's a whole modular system and you keep adding stuff on?

Completely. Yeah. In its most evolved state, it has a very big sound ROM and two microcontrollers and two separate boards. The boards ride on the locomotive—one of them is for controlling, and one of them is for making sounds.

The sound comes physically from the train. We use the train and the car itself as a speaker enclosure, and try to acoustically design the inside. In cooperation with Lionel, we work on the acoustics.

We really work on these things together from the beginning, really work on getting the speaker in the right place, fastened correctly and all of the air blocked off—all of the physics that goes into making good acoustic sound. So it sounds a lot bigger than you would think it would!

What parts of the system are going to be available this Christmas?

This Christmas the first level of the system is available, which will control trains much the same way as they were controlled for the last ninety years, except it's a remote control—you can walk around with the controller, control the direction, blow the horn, and ring the bell. Speed it up and slow it down; select different trains on different tracks instantaneously and run them too—that's something they've never been able to do before.

And then it has some accelerated features that enable just better control of

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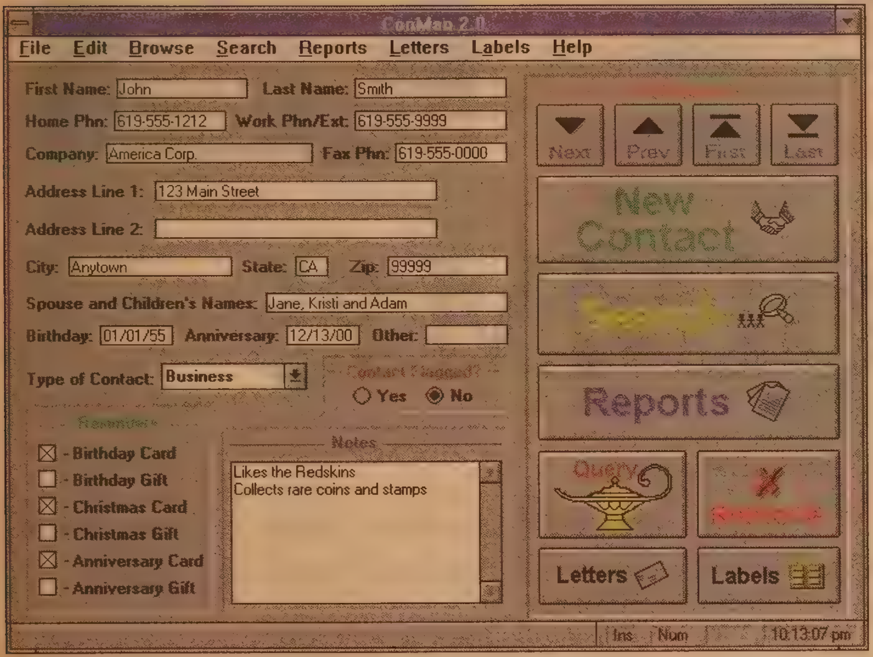

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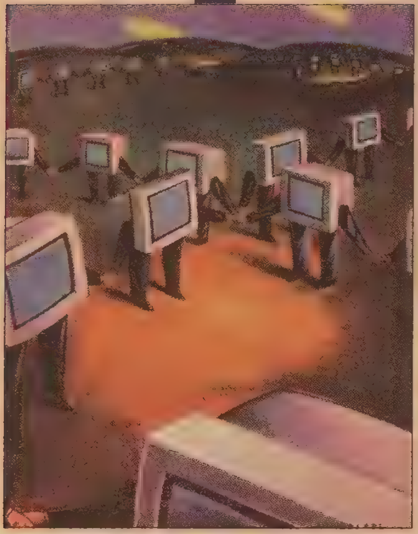
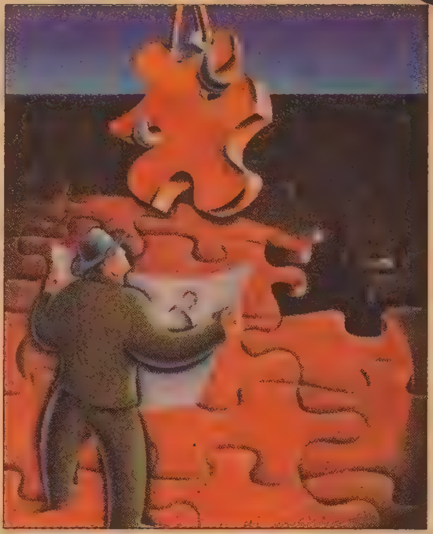


Network utilities—vital, but set aside 100K



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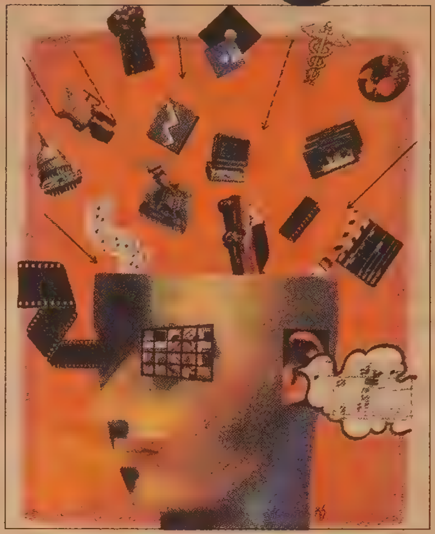

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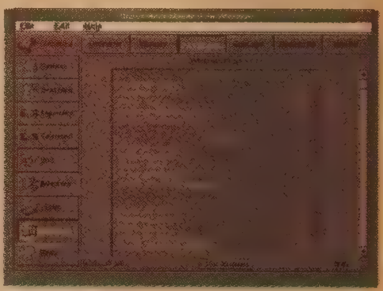

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the direction, because you're dealing with some very old technology.

Basically with the old technology you could control the speed of a single train by giving it more or less power?

That's right. That's the old technology.

The direction was controlled by this drum that spun around. Every time you interrupted the direction, a little spring would pull the drum into a new position, and two new contacts would reverse the polarity of the motor, and then it would go the other way. This was like a mechanical device, really primitive.

But we managed to create a power control and regulation on the track that really got a hold of this thing. It takes the Lionel three-rail track—it controls any Lionel train ever made, right up until today.

So you can have your turn-of-the-century train set work with this?

Oh yeah! It works great! It makes them work better than they ever have before; you can get more out of them.

The control is very fine; plus you have the accessibility, where you can move around. You're not limited to being in one place watching, and having to go over and look at it as it goes by, but not being able to stop it without going back to the control panel.

It minimizes a lot of wiring; there's a lot more you can do.

Now when we show it at trade shows, the kids grab it and they won't let go of it. And that's rewarding, because this hobby has been at a point where it's been going downhill because only a bunch of old guys are doing it. I'm like a young guy compared to most of them. They love it, but the future of the hobby has got to be the kids.

It's such a cool thing, because it brings families together. At the core of this thing is goodness. That's what I really like about the whole idea, the fact that by creating this thing I might be able to be responsible for something that enables families to come together more in some way. It's really cool. That's the good part that I always refer to when I'm slamming myself trying to figure out how to make something work.

What is it about trains that brings people together in a way that gathering around the Nintendo does not?

Well, with the Nintendo you're playing against yourself, or an imagined enemy that's represented by the machine. There's only you and the other party; maybe you've got somebody beside you who's also playing against himself or an imagined

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The Liontech Skunkworks

By Bruce Koball

Realizing Neil Young's ideas for controlling a model train layout posed some challenging design problems: How do you create a system that's easy to use, and yet complex enough to provide the variety, interaction, and realism that hold a user's interest? And then there's the "phone company" question: How do you design a system with new, high-tech capabilities and still maintain compatibility with an installed base of existing products that may be decades old?

To solve these problems, Neil and Richard Kughn, chairman and CEO of Lionel Trains, formed a development company called Liontech. Working for Liontech, under Neil's direction, Rick Davis at Real Design Labs in Menlo Park, CA, developed prototypes of some of Neil's initial concepts. Neil then engaged expert toy designer Ron Milner and the engineers at Applied Design Labs in Grass Valley, CA, to create the finished product, Lionel's new TrainMaster® microprocessor-based control system. The initial components of this system are the CAB-1, a wireless, hand-held controller, and the PowerMaster, a power control unit that receives commands from the CAB-1 and applies power to the track.

Traditionally, Lionel's model trains were powered by large and heavy devices like their classic ZW transformer. The ZW controlled the train's speed by varying the AC voltage to the track and the train's direction by momentarily interrupting the track voltage. (In older trains the track voltage interruptions actually cycled a rotary relay in the engine through a forward-neutral-reverse-neutral sequence.) To trigger horn and bell sounds in the train, the controller superimposed a small positive or negative DC offset on the AC track voltage.

The heavy transformer is often replaced in modern systems with solid-state circuits, but the necessity of remaining close to the controller still limits the mobility of the user. The TrainMaster system, however, removes this constraint entirely and allows the user tetherless control of all aspects of layout operation. Conventional systems also require multiple controllers and complex wiring for simultaneous operation of more than one engine on a layout; TrainMaster removes this constraint as well.

Currently, when running in "conventional mode," the TrainMaster system uses the traditional AC voltage/DC offset control scheme to provide compatibility with existing trains and layouts, while enhancing their operation with features like variable "momentum" and the ability to control up to ten engines on separate tracks with a single CAB-1.

In the near future, the addition of a third component called the Command Control Base, along with suitably equipped trains, will allow a TrainMaster system to operate in "command-control mode," giving the user control of many more functions, including lights, couplers, sound effects, track switches, and other layout accessories. Command-control mode will also allow multiple engines on the same track to be controlled individually, dramatically simplifying layout wiring. The combination of these features provides an almost limitless variety of play options.

Liontech's development efforts have also been directed towards a goal of particular interest to Neil, the creation of realistic sound effects for Lionel's model trains. Again working under Neil's direction, Liontech engineering consultants, including Rick Davis, Joe Thibodeau, Rudy Trubitt, Ron Milner, and Bruce Koball, have created Railsounds II, a microprocessor-based, six-voice digital sound system that fits inside Lionel's model trains.

Individual sounds from real diesel and steam engines are captured by Neil and his engineers, as Rudy describes in the following sidebar, and stored digitally as separate sound records in a ROM chip, using a delta modulation scheme. During operation, the Railsounds II microcontroller retrieves the individual sound records, mixes them together and plays them back simultaneously at a 11.025kHz sample rate with 12-bit resolution. The playback of these sounds is controlled by a complex combination of stimuli, including the current speed of the train, its recent operational history, and direct commands from the user.

Much attention has been paid to optimizing the acoustics of Railsounds II-equipped engines, as well. Neil and Liontech acoustical consultant Dennis Fowler work closely with Lionel to produce the best sound possible for each different model. The result is a remarkably high-quality sound reproduction system with a very large repertoire of sounds that are unique to each engine model. ■

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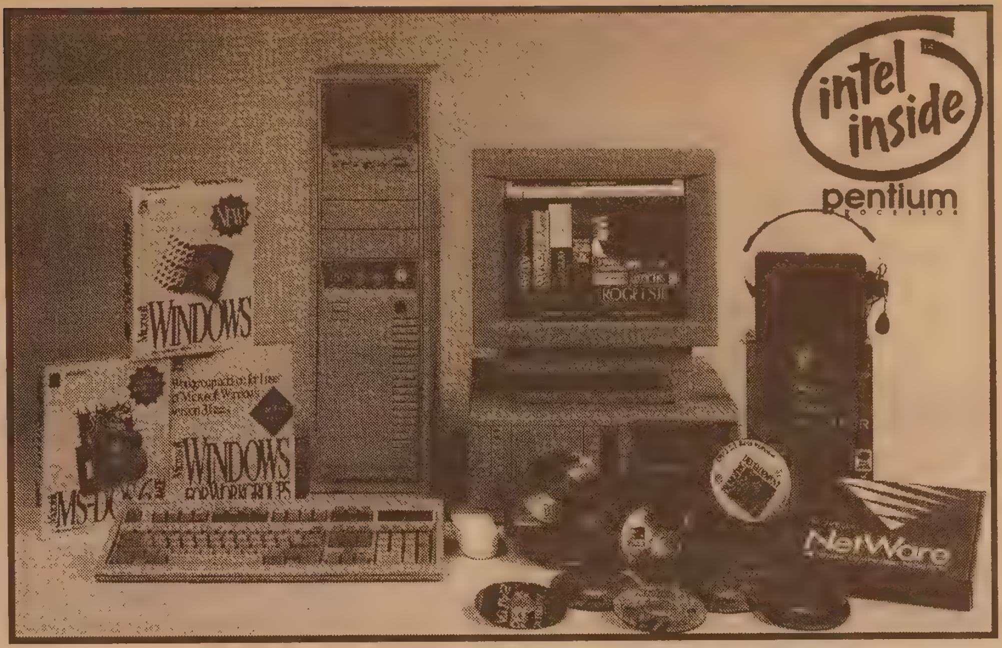

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The CAB-1® remote controller allows you to operate your trains from anywhere in the room as well as control sounds, directions, boost and brake.

enemy. It's very rarely that you have two people playing against each other; they're really playing against the machine and what the machine is doing.

It is similar, inasmuch as you get lost and you stay there for hours. But you can't reach in. If you break something in the machine, you can't fix it. There's no third dimension to it—it's all in your mind.

With the Lionel thing, if you break something you can take it up. You've got physics. You've got electronics. You've got all these other things in reality, working on something, actually having to get a part and fix it and do all of these things.

A lot of fathers and sons can share that experience and really get a lot out of it.

Even mothers and daughters, *Neil!*

Yeah, I know they can.

[*laughs*] I guess you're right. Daughters and fathers!

It is true, there's a lot of girls that are into it.

Gotta make this a nonsexist story.

That's right! This is a nonsexist story.

Lionel even made a girl's train at one point.

I remember. It was powder pink or something. No self-respecting girl would have one.

Right. Now it's a great collector's item because nobody bought it in the first place.

If a girl's going to like trains, she's going to like *real* trains. It doesn't have to be like a baby or a doll or something. They really missed the point on that one. She's going to want it just like the guy does—good paint job. A lot of lights...

So is this a big boon to Lionel's business, considering the state of the hobby?

The idea of having this new control system is revolutionary to the hobby in general. A company as big as Lionel is actually producing this thing and making it, and it's a whole integrated system that's really designed to be user-friendly and real easy to use. It's designed for a lot of feedback, and a design to grow in the future, so it'll just keep changing and evolving.

It's got a port on it for a PC, so you can control the trains from a computer. You can make maps—they have a program called CAD Rail where you can make up a map. They have interfaces for signals, so you can apply your signals to certain parts of the map and start off with #1 positions on all the trains, and sit and watch on screens as the trains move around, just like in the real control yards—computerized control. You can take it as far as you want to go with it. It's really quite interesting

Where do you think it will go from here?

I think it'll just end up becoming what it was in the first place, something where the parents can see, "Well, if I get this thing, it's going to be fun for me. And it's going to be fun because the kids are going to like it."

We know the kids like it, because as soon as you put the controller in their hands, they're gone—they're running around the table chasing the train, and then they don't want to give it up. They just become mesmerized by it.

It's designed so everybody can have a controller, there's not just one. You can run as many as you want at the same time.

How to you keep them from interfering with each other—are they on different frequencies?

No, it's all on the same frequency, but we've designed them so they stay out of each other's way. They all talk at the same time. It's real quick, so there's no stepping on you. Two people can run the same train at the same time. Games can happen—you can do things to the other guy's train to mess him up, uncouple his cars from him by remote control...

I don't know how many millions of Lionel train sets are out there—there's got to be somewhere between five and ten million units out on the streets now, that could all be retrofitted with this technology. And even if you don't retrofit, they'll still work better than they ever did before. You can really do a lot more with them.

You still get the ozone smell, though, right?

Oh yeah, the ozone smell! What made you ask about that? That's a very inside kind of question....

The ozone smell with Lionel, that's one of the joys. And with the hand-held controller you can get right down next to it as it goes by and get a good whiff! [*laughter*] The real thing!

Do you see this expanding into other toys? The principle can clearly be extended beyond trains.

We have the technology to do that with any kind of toy. A semitrailer, a steam shovel, anything. The principle of controlling toys in a way that they've never been controlled before, inasmuch as everything on it will work—it's almost like a real thing. If you had a dump truck, you could completely work, by remote control, everything on it. Plus it would have the sounds and everything.

Trains are fun because you get a whole bunch on the same track, but these other vehicles and airplanes—nobody's ever really made an airplane with a sound system. A jet that sounds like a jet, or a propeller plane that sounds like an old prop plane when it starts up—it wheezes, and does all that stuff, and then it rattles and then it gets that whine happening....

You can do all that, and really make them sound exactly like they sound. Design the thing so it'll resonate...

I'm told you guys put a lot of effort into tweaking the sounds so they were just exactly right.

Yeah—first of all, the recording of the sound is done right; we do it very

Recording Rail Sounds: The Inside Story

By David (Rudy) Trubitt

Recording locomotives is definitely a "don't try this at home" proposition. Capturing the raw sounds for individual Lionel locomotives has taken us across the US in search of authentic engines and their accommodating crews.

While there are many historical and contemporary train recordings, these are typically the sound of passing trains, a blur of overlapping sounds, Doppler-shift, and ambient noise. A dramatic sound, to be sure, but we need more detailed samples of the individual elements of a locomotive's sound.

Using portable DAT recorders and a variety of professional microphones from Neil's studio, each engine is put through its paces while mics pick up the action from every conceivable vantage point.

Back at the ranch, these recordings are transferred digitally into a Macintosh running a Digidesign Sound Tools II system. Using sound editing software from a variety of sources, individual sounds are edited, sample-rate and word-size converted.

The final release of each set of engine sounds is a little like finishing an album—after all the basic parts have been performed and recorded, the last step is balancing levels, listening to the blend, and balancing some more. Neil's ears are the final judge, a dB here, half a dB there, and another sound ROM goes out the door.

We go for three things in every set of engine sounds: playability, listenability, and authenticity. Some sounds, like steam whistles, horns and bells, are actually played by the user. Others happen "in the background." Motor noise, chuffs, compressed air "let-offs," and other sounds react indirectly to the operator's commands, simulating the sound of a real locomotive.

For instance, blowing a horn depletes a real engine's store of compressed air. When pressure falls, an air compressor speeds up to replenish this reservoir. Railsounds II's software mimics these inter-dependent sounds, recreating the complex sonic signature of a live locomotive. ■

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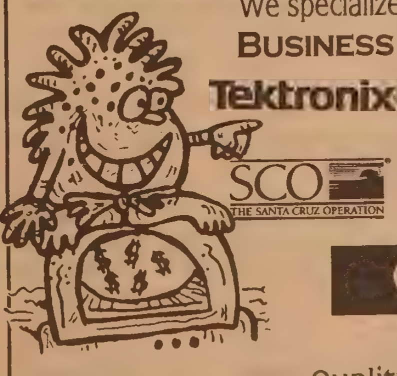

cleanly and get a good solid recording to start with, which is the most important thing.

Then we make sure the speaker enclosure is physically correct, so that it's living within the laws of acoustics, not trying to do something just because you're hoping it's going to work, but putting the speaker in the right place, making sure that it's fastened correctly, making sure that it's in a good place in space and that there's a lot of volume around it. That it's not cluttered up with other things so it can start a resonation going. And then basically tuning it in a little bit so it does resonate the best it can, and getting the most efficiency out of it.

You edit the sounds on computers?

We edit all the sounds.

There's a sound we have now, a steam engine that we just recorded from the Norfolk and Southern railway, that's coming out on Lionel in about three months. There's over fifty different sounds that it makes—we have fifty different samples that it will play back, according to the microprocessor that's on board. We programmed it to take into consideration the speed, the exact synchrony of the smoke unit which is puffing out the smoke. It has to know when it stops, exactly. It has to keep track of all these conditions, keep track of the sync of the speed with the cam, then the voltage on the track.

You take all of those and combine them with digital inputs at 3000 baud coming at it through the rails, and you can control the effect.

That's at the upper end of the system. That's when you start using all of these things and add digital signals over the track in addition to the onboard monitor.

So you could go completely crazy with this.

Yeah. I have. [*laughs*]

Liontech is a joint venture of you and Lionel?

It's a joint venture of myself and Richard Kughn as individuals, not really Lionel. Richard Kughn owns Lionel. He has a huge car collection, he has a train collection, he's a very successful businessman, he's done a lot of things in his area. He used to be a magician when he was young; that's one of the things he did at the beginning of his life. He has a huge pipe organ; he collects all kinds of weird things. He's got a bicycle collection.

So we have a lot in common. I like to collect things too, so we got along real well. I guess what happened with Lionel is that he collected the trains for a long time, and then the company came up for sale so he just bought the company.

And then he's brought it back.

When did he buy it?

He bought it about eight years ago, I think. Since then the quality of the workmanship and the control of the quality and the products have consistently gotten better. We make our electronics overseas, but a lot of our stuff is made right in the US, and the things are put together here.

To do that, working within that framework, and really pack quality into it, is a big job. He's come a long way.

Yeah—before I fell into this way of life I ran toy departments for a while during the late '70s and early '80s, and Lionel was pretty dead in the water.

Only the spirit was left. People would come in trying to buy Lionel, because they remembered what Lionel used to be. They didn't even know if the company was still in business. They'd buy something, and they'd be disappointed, because it wasn't as heavy, and didn't work right.

But now, they've just modernized the approach, through reorganization, restructuring, modernizing the entire facility. More important, now they're using the team method as opposed to the old hierarchical structure of industrial companies. They've changed it into teams, and they're having a lot of success with that. Yet they're still in the same factory in Detroit that they've been in for the last eight or nine or ten years.

He's really brought the quality up, and now the technology is back where it was in the '50s, when they were the leading technology in toys. They're now the leading technology in toys. There's nothing like it anywhere.

I say that really believing it. We have other companies coming over to us wanting to use our technology all the time now, competing companies, saying, "We can't do this development, but you guys did." We're both so into it, Mr. Kughn and I both are so into it, that the development was a real great thing. We just kept going until we had it.

That hacker zeal...

Yeah. We got into it.

Are you going to license it to other people, or is that one of those business decisions you're not involved with?

Well, that's still...it's a business decision, yeah.

It's quite advanced compared to everything else out there.

What would you like it to be able to do that it can't yet?

I would like to see the virtual cab.

continued on page 202

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STEP TWO: CONFIGURATION REQUESTS:

CPU ○ PENTIUM ○ 486 ○ 386 ○ Mac Quadra/Performa ○ MacPower PC

CPU MHz SPEED:
○ DX4 ○ DX2 ○ DX ○ SX ○ SLC ○ Quadra ○ PowerPC
○ 100 ○ 90 ○ 80 ○ 75 ○ 66 ○ 60 ○ 50 ○ 40 ○ 33 ○ 25

BUS TYPE ○ PCI ○ VLB ○ EISA ○ ISA

CACHE ○ 64K ○ 128K ○ 256K ○ 512K

RAM: ○ 1MB ○ 2MB ○ 4MB ○ 8MB ○ 16MB ○ 32MB ○ 64MB ○ 128MB

HARD DISK DRIVE: ○ 100MB+ ○ 300MB+ ○ 500MB+ ○ 1GB+ ○ 4GB+
○ IDE ○ SCSI ○ 200MB+ ○ 400MB+ ○ 700MB+ ○ 2GB+ ○ 8GB+

MONITOR: ○ SVGA ○ VGA ○ MONO ○ 26 DPI
○ 14" ○ 15" ○ 17" ○ Non Interlace ○ 28 DPI
○ 20" ○ 21" ○ Multisync

FLOPPY DRIVE: ○ 1.44MB and/or ○ 1.2MB

FAX MODEM: ○ Internal ○ External ○ 9600bps ○ 14400bps ○ 28800bps

CASE TYPE: ○ Mid Tower ○ Desktop ○ Full Tower

VIDEO CARD RAM ○ 512KB ○ 1MB ○ 2MB ○ 3MB ○ 4MB

POINTING INPUT DEVICES: ○ Any Mouse ○ MS Mouse ○ Keyboard
○ Serial ○ Bus ○ PS2 ○ Trackball ○ Joystick ○ Ball Point ○ Pen

OPERATING SOFTWARES NEEDED: ○ DOS ○ OS2 ○ Mac ○ UNIX ○ MS Windows

STEP THREE: MULTIMEDIA UPGRADE

○ Please Add To Step 1 & 2 Quotation ○ Please Quote Me Separately

CD ROM DRIVE: ○ Internal ○ External ○ IDE ○ SCSI

CD ROM TITLES INCLUDED: ○ 1-5 ○ 5-10 ○ 11+

SPEED ○ 2X ○ 3X ○ 4X

○ BRAND NAME ○ No Brand Name Preference

CD ROM Brand Name and Model Number ☐☐☐☐☐☐☐☐☐☐☐☐☐

SOUND CARD ○ 16Bit ○ 32Bit ○ 64Bit

SPEAKERS ○ Less Than 25W ○ 25 to 50W ○ 50 to 75W ○ More Than 75W

STEP FOUR: NOTEBOOK SECTION (Please Note You Must Make Choices In Steps 1 & 2 To Complete Step Four.)

SCREEN TYPE: ○ Mono ○ Dual Scan Color ○ Active Color

PCMCIA SLOT: ○ Type I ○ Type II ○ Type III ○ Type IV

○ Audio Capable ○ Docking Station ○ Extra Battery ○ Fax Modem

STEP FIVE: NETWORKING NEEDS:

○ Please Contact Me on My Networking Needs Indicated Below

○ Software ○ Hardware ○ Consultation ○ Design ○ Installation ○ Administration
○ Users 2 to 10 ○ Users 10 to 50 ○ Users Over 50 ○ Novell ○ Lantastic ○ MS NT ○ Apple Talk ○ MS Workgroups

STEP SIX: UPGRADES and PERIPHERALS.

○ Include Step Six Choices To The Above Quotation

○ Ink Jet Printer ○ Laser Printer ○ Accelerator
○ Color Printer ○ Hand Scanner ○ Tape Backup
○ Dot Matrix Printer ○ Flat Bed Scanner ○ Digitizer

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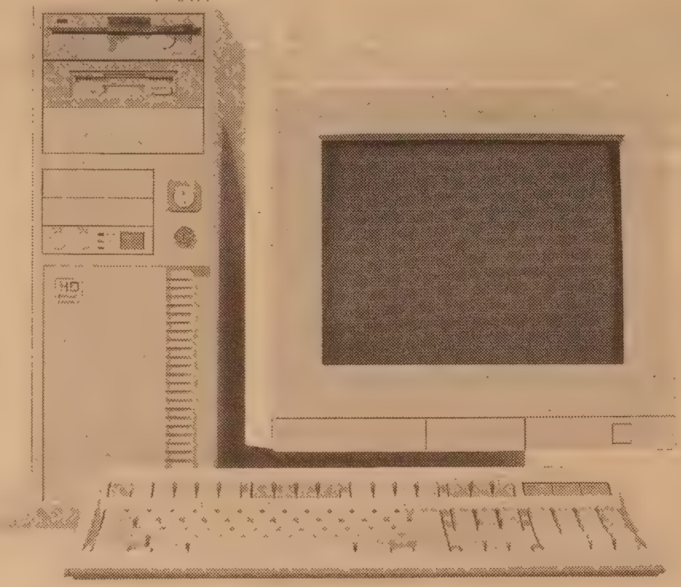

- ***Intel Pentium 90MHz Processor***
- *Intel Neptune Chipset*
- *256KB External Cache*
- *8MB 72-pin RAM (Max 128MB)*
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- *1.44MB FDD*
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- NCR PCI SCSI II Controller
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- 101-key Keytronic Keyboard
- Microsoft Serial Mouse
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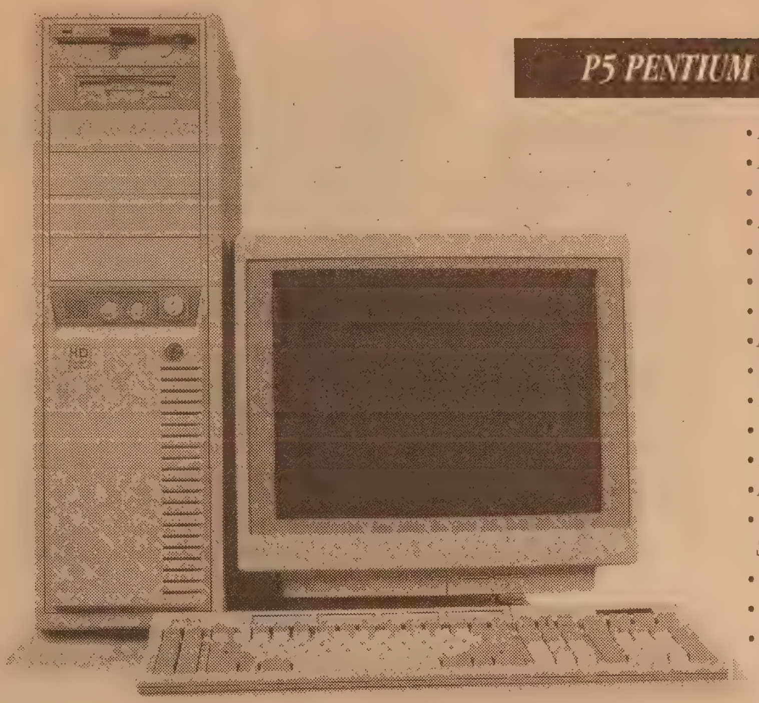

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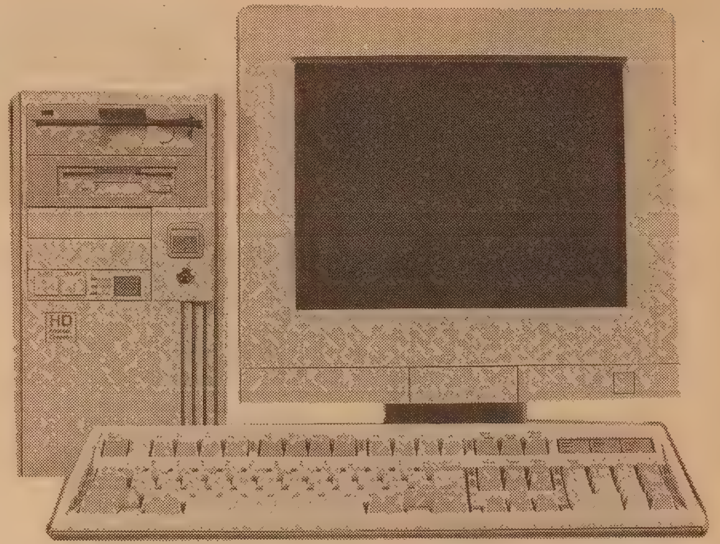

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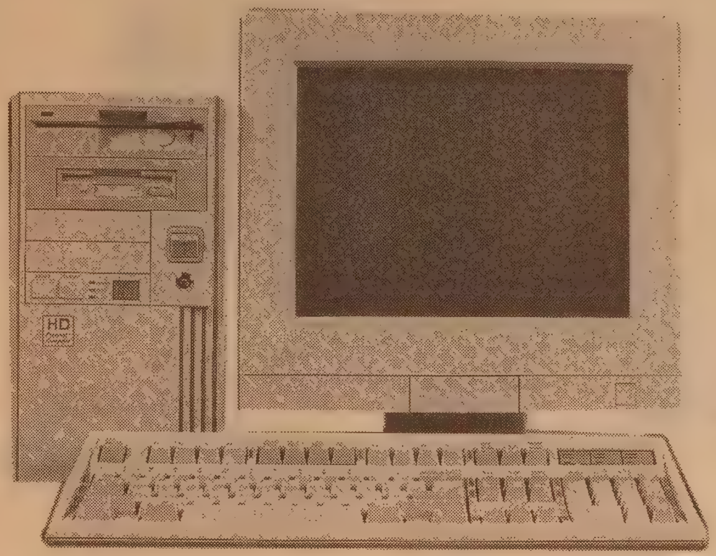

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Controller Card	
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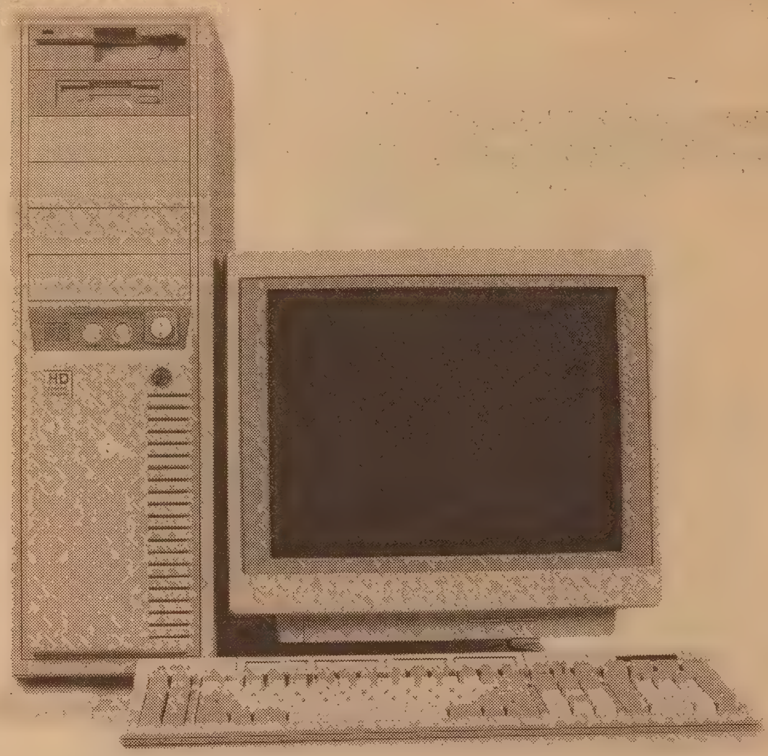

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- *Free Mouse Pad*
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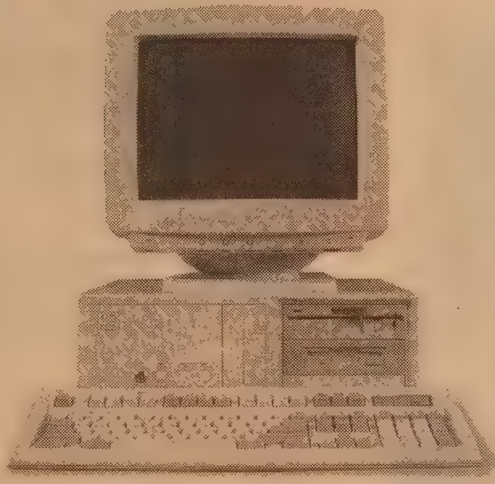

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HUB

4 Port 10 Base-T Hub Card	***$150***
8 Port 10 Base-T Hub	***$215***
12 Port 10 Base-T Hub	***$485***

PENTIUM/HD File Server

- *Tower Case w/ 300W Power Supply*
- *Intel Pentium 90MHz Processor*
- *PCI/EISA Motherboard*
- *16MB Ram 72PIN (Max 128MB)*
- *256K High Speed External Cache (Max 512KB)*
- *Teac 1.2MB Floppy Drive*
- *Teac 1.44MB Floppy Drive*
- *2.1GB Wide SCSI Hard Disk*
- *Adaptec 2940W PCI Wide SCSI Controller Kit*
- *M.G.P Card*
- *14" Mono monitor*
- *101 Key Keytronic Keyboard*
- *Microsoft Serial Mouse*
- *Free Mouse Pad*

$3995

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It's your serve! New workstations from HD Computer will put you in the Winner's Circle. These little systems are loaded with features. Where else can you find complete network stations for under $1000?

With the extraordinary performance, HD Computer Systems allow you to race through heavy/intensive or demanding network environments. Accessing large amounts of data at high speed is the standard.

HD Computer offers unparalleled custom system configurations. When it comes to the best, the fastest and the most cost-effective, no one beats HD Computer network system solutions.

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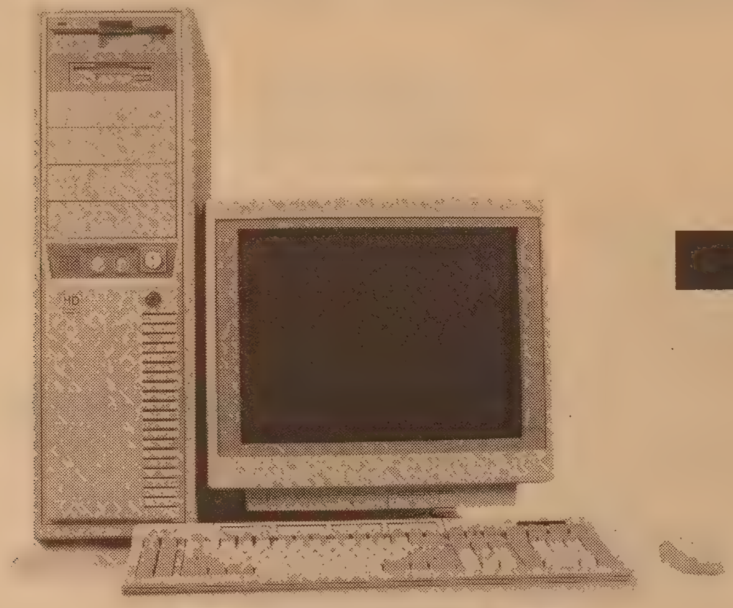
"We Stand Behind Our Technology, Quality and Service"



Ethernet Adapters

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- ***DANPEX***

PCI Ethernet Card	***$165***
EN-2000B 16Bit BNC	***$65***
EN-2000BT 16Bit Combo	***$85***
EN-2000PB 16Bit Soft Set BNC	***$60***
EN-2000PT 16Bit Soft Set 10BT	***$60***
EN-2000P3 16Bit Soft Set Combo	***$75***
EN-6000B Pocket Lan BNC	***$137***
EN-6000T Pocket Lan 10BT	***$140***
EN-400I 4Port 10BT Hub Card	***$150***
EN-800A 8Port 10BT Hub	***$215***
EN-1212A 12Port 10BT Hub	***$485***

- ***Accesories***

Novell Labs Tested & Approved

RG58 Coax Cable BNC 10'	***$8.00***
RG58 Coax Cable BNC 25'	***$10.00***
RG58 Coax Cable BNC 50'	***$13.00***
RG58 Coax Cable BNC 100'	***$25.00***
BNC Straight Adapter F-F	***$1.80***
BNC T Adapter F-M-F	***$3.80***
BNC Terminator 50 OHM	***$2.20***
BNC Connector Crimp on RG58	***$1.80***
BNC Connector Mold	***$2.00***
Gender Change DB25 F/F, M/M	***$4.00***
Gender Change Cent .36 F/F, M/M	***$7.00***
Gender Change DB25 to Cent .36	***$5.00***
Gender Change DB9 to DB25	***$4.00***
Gender Change DB9 to Din6	***$5.00***
RG58 A/U Coax Cable 1000	***$125.00***
RJ45 8 Twist Pair Cable 1000'	***$110.00***
RJ45 8 Twist Pair Cable 10'	***$3.50***
RJ45 8 Twist Pair Cable 25'	***$4.50***
RJ45 8 Twist Pair Cable 50'	***$9.50***

- ***Microdyde/Novell***

NE-2000 Plus 16bit	***$115***
NE-2000T Plus	***$115***
NE-3200 EISA 32bit Coax/TP	***$539***
NE-2000 Plus 3	***$129***

Ethernet Adapters

- ***Compatible***

NE-1000 8bit Coax	***$59***
NE-2000 16bit Coax/TP	***$60***
NE-2000 16bit Combo	***$75***
NE-2000 16bit 5 pack	***$235***
EP-888A Pocket Ethernet BNC + 10BT	***$145***
EP-808A 8Port Ethernet HUB	***$199***
EC-812 12Port Ethernet HUB	***$449***
EE-840 32Bit EISA Ethernet	***$289***

- ***Intel***

Etherexpress 16 16bit 5pack/20pack	***$575/1995***
Intel 16bit Ethernet Combo PCLA 8100	***$129***
Intel 16bit Ethernet BNC PCLA 8110	***$115***
Intel 16bit Ethernet 10BT PCLA 8120	***$115***
Intel 16bit Ethernet Combo PCLA 8105/Flash	***$159***

- ***3COM***

3C503 Etherlink II 16 Coax/TP	***$167***
3C503 Etherlink II 16 5pack	***$785***
3C507 Etherlink II 16 Coax/TP	***$295***
3C509 Etherlink III Coax/TP	***$117***
3C509 Etherlink III 5pack	***$528***

- ***SMC***

Ether card plus elite 16 Coax/TP	***$119***
Elite ultra 16bit Coax/TP	***$115***
Elite ultra 16bit 6pack/24pack	***$675/2375***
SMC Ultra 16 Bit Ethernet Combo	***$135***

- ***Cogent***

PCMCIA UTP Ethernet Adapter	***$199***
32-bit PCI Full Duplex Combo Ethernet Adapter	***$159***
32-bit PCI Full Duplex UTP Ethernet Adapter	***$139***
32-bit PCI 4-Port UTP Full Duplex Ethernet Adapter	***$529***

- ***DLINK***

DE-600 TP Pocket Ethernet 10BT	***$199***
DE-205 TP 16Bit Ethernet 4 Port 10BT	***$290***

- ***INFO Express Ethernet Adapter***

16Bit BNC/10TP	***$60***
32Bit VLB/Combo	***$139***

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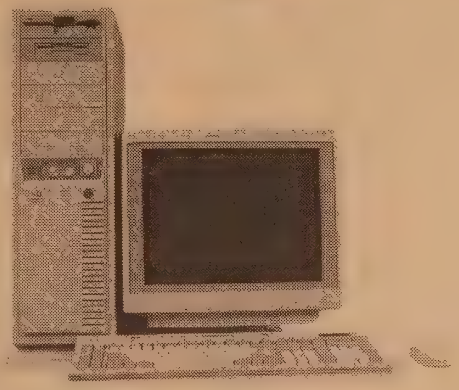
GENERAL/BEST BUY SYSTEM

Top Performance EISA/VESA System

- *Intel DX-486 Processor*
- *ZIF Socket OverDrive Ready*
- *8KB Internal Cache*
- *256KB External Cache*
- *8MB RAM (Max. 128MB)*
- *1.2MB FDD*
- *1.44MB FDD*
- *32-bit EISA SCSI II Controller*
- *2 16550 UART High Speed Serial Port*
- *1 Parallel Port*
- *540MB SCSI HDD*
- *Tseng Lab ET-4000 W32 VL-B GraphicAccelerator Card/1MB*
- *Mid Tower Case w/ 230W Power Supply*
- *14" ViewSonic 6E Non-interlaced Monitor*
- *101-key Keytronic Keyboard*
- *3 Button Serial Mouse*
- *Microsoft DOS 6.22*
- *Microsoft Windows 3.11*
- *Free Mouse Pad*



DX-33	**$1845**
DX-50	**$1995**
DX2-66	**$1945**

HD 486 System Below $1000

- *Intel SX 486 Processor*
- *128K Cache*
- *4MB RAM (Max. 32MB)*
- *1.44MB FDD*
- *340MB IDE HDD*
- *2H/2F IDE Disk Controller*
- *2S, 1P, 1G Ports*
- *16-bit SVGA Card/1MB*
- *Mini Tower Case w/ 200W Power Supply*
- *14" SVGA Monitor, .39 dpi*
- *101-key Enhanced Keyboard*
- *3 Button Serial Mouse*
- *Microsoft DOS 6.22*
- *Microsoft Windows 3.11*
- *Free Mouse Pad*

486SX-33	***$959***

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HD Computer continues to offer leading, high-performance system configurations for any application. Custom configuration. Lifetime technical support. 30-day money back guarantee. No other Bay Area system integration house can boast this type of service and support.

HD's new EISA/VESA systems, 386 systems and Windows Accelerator systems are only a few of the many system configurations now offered by HD Computer. Whether for business or at home, HD will custom build the computer systems to your specifications.

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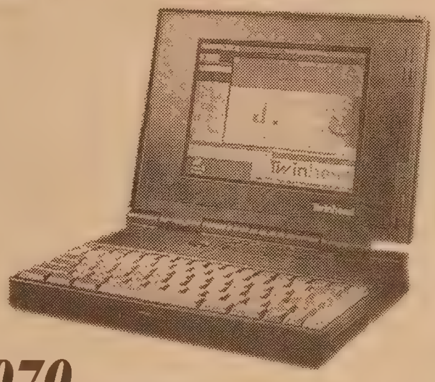
Twinhead Powerful Slimnote

- *Intel SL Enhanced Processor*
- *4MB RAM Expandable to 20MB*
- *1.44MB Built-in Floppy Disk Drive*
- *84 Keys Keyboard*
- *PCMCIA Type II Slot*
- *Built-in Trackball*
- *10" VGA/Mono Display*
- *MS DOS 6.2, MS Windows 3.1*
- *Physical Dimensions 8.5" x 11" x 1.6"*
- *Weight with Battery 5.8 lbs*

***SM2-4SX/33M** (486SX-33 w/200MB HD)*	***$1670***
***SM2-4DX/33M** (486DX-33 w/200MB HD)*	***$1870***

Twinhead 4 Pounds Powerful Subnote



- *Intel SL Enhanced Processor*
- *4MB RAM Expandable to 8MB*
- *1.44MB External Floppy Disk Drive*
- *8" Side lit VGA display, 64 shades*
- *85MB IDE Hard Disk*
- *79 Keys Keyboard*
- *64 Gray Shades VGA Display*
- *PCMCIA Type II Slot*
- *Built-in Trackball*
- *MS DOS 6.2, MS Windows 3.1*
- *Physical Dimensions 7.1" x 10" x 1.6"*
- *Weight with Battery 4 lbs*

486SL-33-4 Only	***$1070***

Twinhead Brilliant Color Notebook

- *Intel SL Enhanced Processor*
- *4MB RAM Expandable to 20MB*
- *1.44MB Built-in Floppy Disk Drive*
- *84 Keys Keyboard*
- *256 Color Display/512K RAM*
- *PCMCIA Type II Slot*
- *Built-in Trackball*
- *MS DOS 6.2, MS Windows 3.1*
- *Physical Dimensions 8.5" x 11" x 1.8"*
- *Weight with Battery 6.3 lbs*

SM2-4DX/33S *(486DX-33 w/200MB HD Dual Scan Color)*	***$2350***
SM2-4DX/33P *(486DX-33 w/200MB HD Active Color)*	***$2950***
SM2-4DX2/66T *(486DX2-66 w/200MB HD Active Color)*	***$3570***

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66/60 MHz PCI /ISA Mercury 256K	$345

AMI (W/CPU)

60 MHz EISA/PCI Excalibur 256K	$1195
60 MHz PCI/VLB Excalibur 256K	$1095
60 MHz PCI/ISA Excalibur 256K	$1095
486 EISA/VESA Enterprise III 256K 33/66MHz	$860/945
486 EISA/VESA Enterprise IV 256K 33/66MHz	$740/835
486 VLB/ISA Super Voyager 256K 33/66MHz	$575/695

Micronics (W/O CPU)

90 MHz PCI /ISA Neptune 256K	$645
66/60 MHz EISA/PCI M5PE 256K	$615
60 MHz PCI/ISA 3PCI Slots 256K	$485
486 EISA E2 256K	$395
486 EISA/VLB 256K	$495
486 JX30 VLB/ISA 256K	$285
486 VLB/ISA 256K	$235

Asus (W/O CPU)

90 MHz EISA/PCI Dual Processor	$895
60 MHz EISA/PCI 256K	$395
60 MHz PCI/ISA Mercury 256K	$325
486 PCI/ISA Saturn 256K	$295
486 VLB/ISA SIS Green 128K	$145
486 VLB/ISA Support DX4 256K	$175

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90 MHz PCI/ EISA Mercury 256K	$585
90 MHz PCI/VLB/ISA Opti 256K	$415
66/60 MHz PCI/VLB/ISA Opti 256K	$365
66/60 MHz VLB/ISA Opti 256K	$395
486 VLB/ISA Contaq 128K	$125
486 EISA/VESA SIS 256K	$295

Controllers

Adaptec

1522A ISA/SCSI Fast w/Kit	$139
1542CF ISA/SCSI Bus Master w/Kit	$249
1542CF+ ISA/SCSI w/Corel Kit	$314
2742T EISA/SCSI 14HDS w/Kit	$359
2842VL VLB/SCSI Fast w/Kit	$259
2940 PCI/SCSI w/Kit	$279
2940W PCI/SCSI Wide SCSI w/Kit	$359
PCMCIA SLIM SCSI	$289

AMI

EISA/SCSI Caching Controller	$389
VESA/SCSI Caching Controller	$393

Buslogic

BT 542B ISA/SCSI Bus Master w/Kit	$209
BT 545S ISA/SCSI Fast w/Kit	$208
BT 445S VLB/SCSI w/Kit	$199
BT 742KT EISA/SCSI w/Kit	$329
BT 747AK EISA/SCSI Fast	$369
KT 946C PCI/SCSI Support 8GB	$239

DTC

DTC 2278 VLB/IDE	$39
DTC 3280 ISA/SCSI	$139
DTC 3270 VLB/SCSI	$119
DTC 3290 EISA/SCSI Caching Controller	$499

Controllers

Future Domain

TMC 850 ISA/SCSI 8Bit	$59
TMC 1670 ISA/SCSI 16Bit	$149
TMC 1680 ISA/SCSI 7HD/4FD	$139

Q Logic

Fast ISA/SCSI Kit	$124
Fast VLB/SCSI Kit	$189
Fast EISA/SCSI Kit	$199
Fast PCI/SCSI Kit	$289

NCR

NCR PCI/SCSI 810 SCSI II	$125
NCR PCI/SCSI 825 SCSI II & Wide SCSI	$195

Trantor

8Bit ISA/SCSI	$49
EPP Mini SCSI	$209

Others

PCI/IDE IDE Enhanced	$42
DPT EISA/SCSI Fast w/Kit	$419
VLB/IDE w I/O	$45
ISA/IDE 16Bit w I/O	$25
Super IDE 16Bit w/16550	$59
High Speed Serial Port	$42
AT/IO 2 Serial 1 Parallel	$19

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ATI

Graphics Ultra Pro Turbo 64 PCI/4MB	$589
Graphics Ultra Pro Turbo 64 PCI/VLB/2MB	$379
Graphics Ultra Pro PCI/2MB	$299
Graphics Ultra Pro VLB/2MB	$299
Graphics Ultra Pro EISA/2MB	$329
Graphics Ultra Pro ISA/2MB	$279
Graphics Ultra Plus 2MB	$215

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Stealth 64 PCI/VLB/4MB VRAM	$469
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Stealth 64 PCI/VLB/1MB DRAM	$179
Viper Pro Video PCI/2MB	$429
Viper SE PCI/VLB/4MB	$509
Viper SE PCI/VLB/2MB	$359
Speed Star 64 2MB	$199
Speed Star 64 1MB	$149
Stealth 32 PCI/VLB/2MB	$189
Speed Star Pro PCI/VLB/1MB	$119

Orchid

Kelvin 64 VLB/PCI/2MB	$229
Kelvin 64 VLB/PCI/1MB	$159

Video Cards

Matrox

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MGA-IMP/31A VLB/ISA/3MB	$739
MGA-PCI/2 PCI/2MB	$399
MGA-PCI/2+ PCI/Upgradeable to 4MB	$429
MAT IMP Plus PCI 2MB	$415
2MB Memory for MGA-PCI/2+	$275

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9GXe L-10 ISA/1MB	$255
9GXe L-11 VLB/ ISA/2MB	$349
9GXe L-12 VLB/ ISA/3MB	$413
9GXe L-14 ISA/4MB	$349
9GXe 64 PCI/VLB/1MB	$179
9GXe 64 PCI/VLB/2MB	$249
9GXe 64 Pro PCI/VLB/2MB	$349
9GXe 64 Pro PCI/VLB/4MB	$499

Hercules

HG 720 VLB/2MB	$319
HG 310 ISA/1MB	$209
HG 610 VLB/1MB	$249
S 501 VLB/1MB	$139
S 801 PCI/1MB	$129
D 601 VLB/1MB	$159
D 602 VLB/2MB	$219
D 702 VLB/2MB	$229
D 902 PCI/2MB	$239

Cardex

ET-4000 ISA/1MB/True Color	$95
ET-4000 W32 VLB/1MB/2MB	$125/185
CIRRUS LOGIC 5428VLB/1MB	$95
UMC/IDE VLB/1MB Built-In IDE/ID	$115
WD ISA WD Chipset /ISA	$95

Others

M.G.P. Card	$15
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1MB ISA/SVGA	$59
1MB DRAM Upgrade	$48
1MB VRAM Upgrade	$85

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28.8K Modem 14.4K Fax INT/EXT	$199/209

Hayes

Accura 14.4K INT/EXT	$129/149
Accura 28.8K Fax 14.4K EXT	$249
Optima 14.4K EXT	$395
Optima 28.8K Fax 14.4K EXT	$445
PCMCIA Optima 14.4K	$295

Supra Corporation

14.4i Fax Modem Internal Express	$79
14.4i Fax Modem External	$119

Zoltrix

9600/2400 Fax Modem INT	$59
14.4K Fax Modem INT/EXT	$89/119

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Conner
Seagate
Western Digital
Quantum
Fujitsu
Micropolis
IBM
HP

IDE
Enhance IDE
SCSI II
Fast Wide SCSI

170MB - 9GB

Best Price in Town! Please Call!

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Colorado

DJ-35 350MB/INT	$179
DJ-20 250MB/INT	$159
Tracker 120MB EXT	$279
Tracker 250MB EXT	$317
FC-20 Controller	$79
Power Tape PT-25 2GB/INT	$965
Power Tape PT-50 4GB/INT	$1525

Conner

250MB Tape Drive INT/EXT	$149/299
2150S Viper 250MB INT/EXT	$317/424
2525S Viper 525MB INT/EXT	$459/559
2750 1.3GB INT/EXT	$799/899
2800 2.0GB INT/EXT	$999/1099

Summit

SE-120 120MB/INT	$129
SE-250 250MB/INT	$159

Wangdat

3100DAT 2.0GB INT/EXT	$849/949
3200DAT 4-8GB INT/EXT	$899/999

HP

2.0GB	35470DAT	INT/EXT	$799/899
4-8GB	35480DAT	INT/EXT	$889/999
4-16GB	C1533A	INT/EXT	$1099/1195

EXABYTE

2.0GB	EXB-4200C	INT/EXT	$949/1035
5.0GB	EXB-8505	INT/EXT	$2069/2499
1.5GB	EXB-2501	2NT/EXT	$529/685

Monitors

NEC

NEC 2V	$359
1431 14'NI 1024x768	$319
3V 15"NI 1024x768 .28	$489
3FGe 15"NI 1024x768 .28	$549
4FGe 15"NI 1024x768 .28 Flat	$629
5FGe 17"NI 1024x768 .28	$989
5FGp 17"NI 1280x1024 .28	$1099
6FGp 21"NI 1280x1024 .28	$1989
NEC XE 15"	$578
NEC XE 17"	$998
NEC XE 21"	$1994

Sony

GPD-15SF 15"NI 1280x1024 .25	$439
GDM-17SE 17"NI 1600x1200 .25	$989
GDM-20SE 20"NI 1280x1024 .30	$1859

Nanao

F550i 17"NI 1280x1024 .28	$855
F550iw 17"NI 1280x1024 .28	$925
F560iw 17"NI Green Monitor	$1199
F560i 17"NI 1280x1024 .25	$1395
F660i 20"NI 1280x1024 .31 Trintron	$2095
F760iw 21"NI 1280x1024 .31	$1925
F780iw 21"NI 1600x1280 .26	$3115

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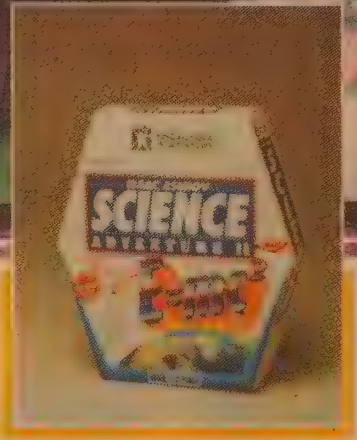
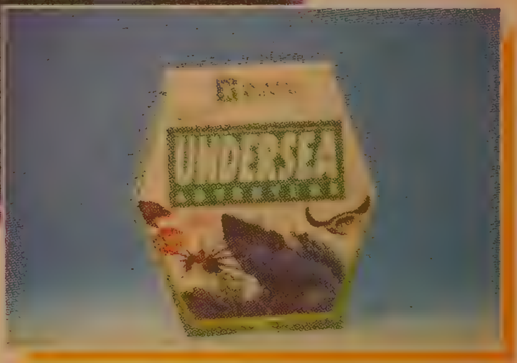
discovering knowledge through adventure

By Michael Robin
Photo by Greg Allen

Interview With Knowledge Adventure Founder And CEO Bill Gross





in 1991, after close to a decade of developing business applications, independently and at Lotus, Bill Gross made a sharp career change to start Knowledge Adventure, an educational software company. The initial focus for the company has been to create software for kids ages three to twelve. Future plans include high school, college, and other adult education software.

By "enriching experience learning," explains Gross, Knowledge Adventure is "trying to make stuff that has positive values, gives goose-bumps of thrill and discovery, doesn't have any shooting or violence, and has a lasting effect on [kids] even after they turn the computer off."

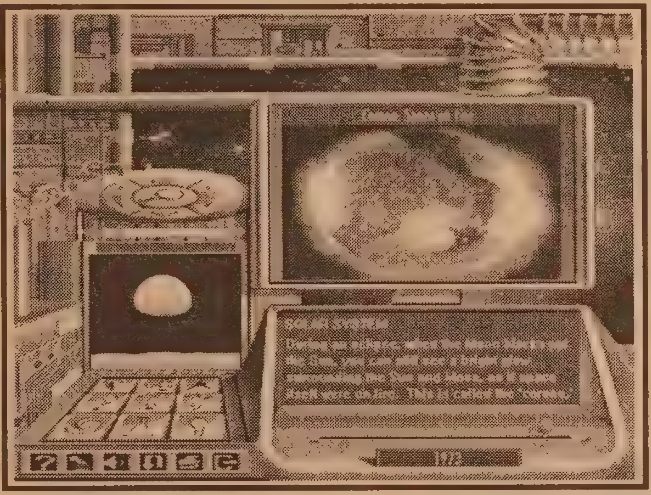
Knowledge Adventure's products can be divided into several categories: Adventure, Reference, Creativity, and Games. The Adventure line explores particular topics of interest to young people. The Reference line, as the name implies, offers reference titles. The first product in this series, Random House

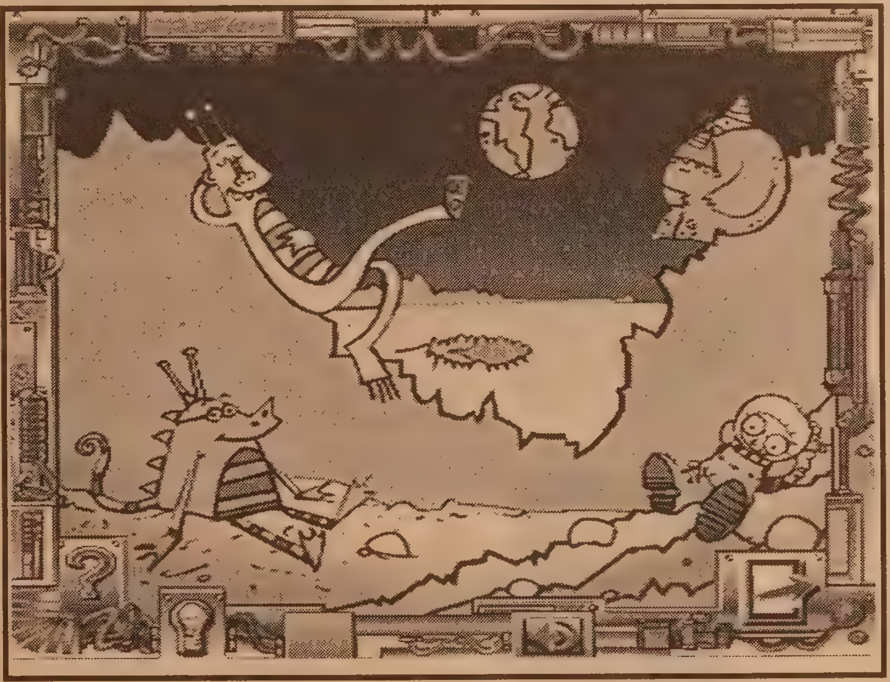
Kids Encyclopedia, is the result of a recent alliance with Random House. The Creativity line lets kids make or construct things. Magic Theater, for example, provides all the tools to make movies. Finally, the Games That Are Good For You line seeks to combine the elements of exciting game play that kids enjoy with the benefits of an enriching experience where they are learning.

Creativity and hard work have brought Knowledge Adventure numerous awards. Last year, it won two Software Publishers Association Awards: Best Elementary Education Program for Dinosaur Adventure, and Best Secondary Education Program for Space Adventure. This year, after the success of the movie *Jurassic Park*, Microsoft also released a Dinosaur software title. Faced with this competition, Knowledge Adventure redesigned Dinosaur Adventure. The work paid off and the new 3D Dinosaur Adventure received the SPA award for Best Overall Education Program, and continues to be a very successful product.

For this small company, 1994 has been a year filled with change. In addition to the awards it has received, Knowledge Adventure has tripled sales, hired a new president, formed a publishing division to work with other software developers, launched a subsidiary, Knowledge Adventure Worlds, signed a technology licensing agreement with AT&T, and established alliances with Random House and Steven Spielberg.

The moment you enter their office in La Crescenta (818/542-4200), near Glendale, it is apparent that this company is in the midst of tremendous growth. They have expanded to take over a building that was originally designed to hold a number of separate companies. The receptionist's desk sits in the middle of a hall, resting between the doorway that leads off to offices and the stairs to the second floor. Lining the hallways are doors resting on file cabinets, acting as desks. And, appropriate for a company that develops software for young kids, models of dinosaur skulls and space projects, world atlases, geography books, and an assortment of other kids' reference books and games lie on bookshelves throughout the offices





Knowledge Adventure is perhaps best known for its Adventure series of titles. Could you explain what you mean by Adventure?

Dinosaur Adventure, Undersea Adventure, Science Adventure, Space Adventure. These are products that take a specific subject that children are either very interested in or learn about in school, like dinosaurs, and by making the most exciting discovery product we can they get to learn facts and make new discoveries on their own. In Dinosaur Adventure this is done through an interactive encyclopedia that lets kids wander all over the earth and see where different dinosaurs lived. They can come up with new assessments about which dinosaurs were found near one another because of the globe in the program. They can see which dinosaurs lived in the same time period through a timeline. Because there is full hypertext on all the images they can see how the legs of some dinosaurs looked similar and others looked different.

Rather than preach to them the facts about the dinosaurs, we try to make the content accessible in ways so they can make the discoveries themselves. For example, one child wrote to us because he noticed that the dots on the globe where different dinosaurs were found in the United States seemed fairly concentrated around the Rocky Mountains. We didn't program that in. It just comes out from the fact that for every dinosaur found a dot shows up on our globe. This child asked the question, "Is that because that was the only place in the United States where dinosaurs lived or just where they were found?"

That's a good question and the answer is a tough one. I think the correct answer is that dinosaurs lived all over the country, but the Rocky Mountains in a particular way preserved the fossils of dinosaurs so they happened to be found there.

Getting kids to ever dream up that question is what we are trying to make happen—to make them look at things in a new way and make a discovery like that. Maybe some paleontologist has already discovered that, but if a kid discovers that for themselves, they feel really powerful, and hopefully apply that looking for new ways to explain things to the rest of their life.

Are the exploring, experiential products what differentiate you from your competition, such as Brøderbund?

Yes.

Brøderbund makes some products that have the exploration and discovery, but they really make products that are more toward creativity. Kid Pix is a creativity product. Playroom and Treehouse are exploration and discovery products—not quite as much based on a subject as opposed to a bunch of activities.

The Learning Company makes mostly skill-and-drill products. They take subjects, like math and reading, to test and drill you. We have pretty much stayed away from that. There is a place for that but this is our differentiation. I really believe in getting children passionate about learning so they will take that passion elsewhere in their life.

Your products are called educational software, but it seems that they are predominately for the home as opposed to the school. Is that correct?

Almost all of our products are used in schools. Because the consumer market is relatively mature now, you don't have to go to the schools to get parents to be convinced to buy the products for the home. Ten years ago in the educational software business that was the only way to get started. We've entered the market late enough where the con-

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sumer business has been relatively refined and improved. It is still not perfect. We sell a lot to schools, but schools don't have a lot of money. We feel we can reach more kids through homes than through schools right now.

Knowledge Adventure also targets young kids, the preschool market of three- and four-year-olds. Parents I have talked to have mixed feelings about this. Some discourage their young kids from using the computer, others really encourage it. What do you think the impact of such early use of computers is on kids?

I personally really encourage it. I definitely sound biased in saying that because we are a company that makes software for that market.

I started the company because I watched my son when he was playing with software, other companies' software. I really felt that it was a very valuable experience. When he was only three I saw him playing a product called Manhole, learning memory, cause-and-effect, planning. Many of these skills were valuable to him for preschool and kindergarten. He was very engaged in his ability to master those things, and to master them at his own pace. You could see a light bulb go on in his head if he discovered something. "Oh, I get it. To get back to that elephant I can follow these same steps." Even at his young age I felt the computer was providing something valuable for him and it was completely nonviolent.

I felt that was the very first step in great software for young kids. Now, if you could add some content, so there is actually material based on science or history, then it would be even more valuable. We would have the same thrill of discovery, the same power of navigation and control, but we would have real information in there.

I still feel that there is no reason not to have children as young as three, four, even five using computers. But like everything else, in moderation, maybe an hour a day balanced with going out in the real world and playing with things.

Before starting Knowledge Adventure you were at Lotus working on Magellan, doing mainstream, corporate business applications. That was a pretty big switch.

Definitely. I had only been in business applications my whole software career. I had done an accounting program in 1-2-3, called CPA Plus. We did HAL, which was a natural language add-on for 1-2-3. Everything I thought about of every waking moment of my business day was how to make business more efficient, and how to make a profit based on products that accomplished that. Lotus eventually acquired my company in 1985, and I was at Lotus for six and a half years. I would have been there forever but my son started kindergarten.

The day I drove away from the kindergarten, waving good-by to him on the playground, I knew that I had to do something in educational software. I felt I could make a bigger contribution in educational software than the remaining delta I could make to business software. The remaining productivity benefit I could get of 10 or 20%, which is huge, in a business product was nothing compared to the 500% I felt I could make in educational software. I never would have had that transition had it not been for my son David.

At the time, this was 1991, it seemed like the stupidest thing of all time. Everybody said, "Educational software is a dead business. CD-ROM is not taking off. You should stay in business software where the money is."

It all made sense to me. But I decided to do this for at least one year. I was willing to lose all my money for one year to make products for my son and for his generation. Then, in that same time period where I just accidentally did that because I felt that I had to, the business exploded. CD-ROMs started taking off. Multimedia PCs went from $3000 to $1000 and the home market took off. I didn't predict those things, it was just fortuitous. I really thought that it was going to fail, but I would at least make the product I wanted to make.

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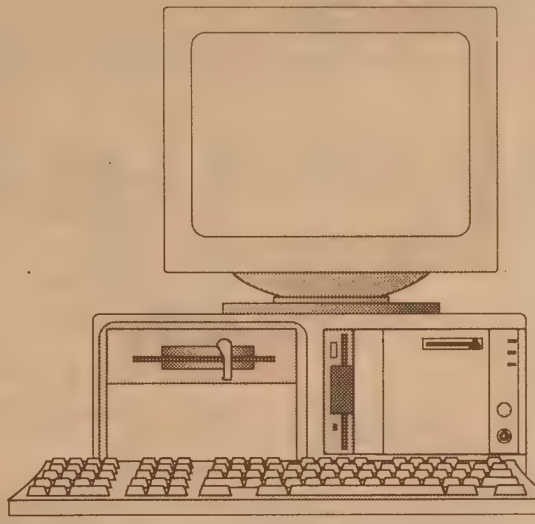

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What experiences did you bring with you from Lotus? How did this shape how you run Knowledge Adventure?

What I learned at Lotus was everything about software quality, software quality assurance, software design, timetables, scheduling, division of labor on a software project, testing, bug-fixing, marketing, all the PR—everything about how to get a software product made and out. I also learned about small teams and collaboration.

What I didn't learn at Lotus, which I did pick up here, was how to blend content into software design. The one thing about business software is that the whole product is software. Here software is only half of the equation. Software is one part—it makes the product run. The other half is the content. Blending the teams of people who create those two very different parts of the product hopefully is the skill that gives us a competitive advantage. It is not easy to do and it is something I never expected—I didn't know that was even an issue when we started the company.

I assume your relationship with customers has also changed.

It's almost not fair, in a positive way, that we're doing something that parents care so much about. I used to talk to customers about Magellan, and they loved the product. But they didn't care emotionally about it, how it's affecting their kids and if it was contributing to their life. It just helped them out in their business.

When we talk to our customers now we talk to a mom, or we talk to one of the kids themselves, they really really care about this. It matters to them a lot.

Similar to the PC industry in general, the market for educational software has matured. In the early '80s, when companies like Brøderbund and Sierra On-Line started, they were mostly family businesses. It's not that way anymore. Knowledge Adventure, for example, has some strong backers. Can the small, garage start-up happen anymore?

The garage start-up can still happen on the creativity side. I don't think it takes strong backers or a big company to come up with a great new idea. It helps, but it doesn't require that. I literally came up with my first idea in a garage. We grew out of my son David's bedroom at home until we overflowed the house, then took a small office until we overflowed that.

The maturing of the market that has made it hard for the garage start-up has not been the creation of the product, it's been the marketing and distribution. Right now, if you are a garage shop and come up with a great idea, it is very hard to get the retail stores to carry your product.

There are now so many titles competing for the small amount of shelf space that retailers are reluctant to take a title from a new company that only has one product. Retailers want to be able to return that product for others in the company's line if it doesn't sell well. They also want to know that there will be more products coming from that company in order to get economies of operation. So, it has become very difficult for a new, one-title company to make it. I think that situation can hurt innovation unless those companies team up with bigger companies for their distribution.

If someone comes to you with an idea, will you help them develop it?

Absolutely. Someone can come to us with an idea at any stage of development—a paragraph on a piece of paper or a complete tested product. The difficulty of coming to us with just an idea on a piece of paper is that we have more ideas on pieces of paper than we have people to execute them. A lot of the difficulty in making a great multimedia product today is not the ideas, but is in building a team and actually doing the work to make it happen. We love to help people build those teams, and we would support people to do that or we would do it in house. But right now, as in any bursting-at-the-seams business, there are more ideas than we can handle.

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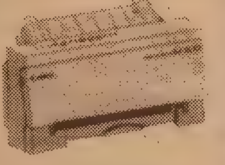

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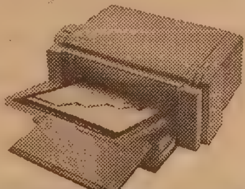

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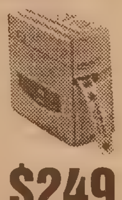

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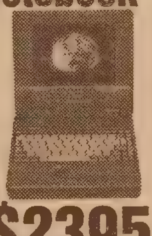

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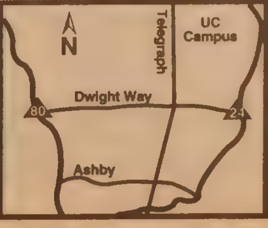


The Discoverers, by Daniel Boornstin, Librarian of Congress Emeritus, is a great book. Your product, based on the book, seems different from your others. For instance, it includes the entire IMAX movie. Also, it does not necessarily strike me as something for little kids.

That product is probably geared toward ages ten and up. That would confine us to the ten- to twelve-year-old part of our audience. Certainly, it is a very serious work. While a ten-year-old can appreciate it, adults can enjoy it as well.

In this case we took a really fantastic book that was turned into a fantastic IMAX movie, and made it interactive by allowing you to branch out from the movie. The producer of that product, Roger Holzsberg, experienced his daughter at the movie continually leaning over to him and saying, "Dad, what's going on there?" "How come they are doing that?" "What is that about?" He wanted to make a product that would allow her to interrupt a movie at any point, explore, and get those questions answered, rather than having to say "shush, shush," during the movie in the middle of the IMAX theater.

Some of the IMAX movies are so tremendously educational it is a shame to make them stop at forty-five minutes when there can be ten hours of exploration. His vision was to make a product that was forty-five minutes long and ten hours wide. He achieved that by taking that movie and adding all the other interactive elements to it.

Along with Venture Capital backing, you have entered into several alliances this year, most recently with Steven Spielberg. How did you two meet? Is anything happening yet?

We actually met very accidentally. He bought one of our products, 3-D Body Adventure, for his kids and fell in love with the product. He thought some of the 3-D stuff we did was incredible, but immediately also thought, "What would it be like if you took all this educational material but actually added a story to it? Made the body come alive and become a character to draw you through it? Didn't rely just on children's curiosity to take you through it, but actually made it compelling to go through because of a story line?"

He contacted us. Told us that, and we said, "Of course, that would be incredible. We don't have the mastery of storytelling, but we do have the mastery of technology. Why don't we talk about doing something together."

When we first met, our ideas were exactly in line. He really wants to do anything possible to help humankind, to help kids, and to have fun personally at the same time. We offered an opportunity to do all those things in products that we could brainstorm about together.

Our first idea was to take each of our products and have him brainstorm things to make them more compelling. The second idea was to make new products together, new ideas not confined to adventure products. That led to him investing in the company and collaborating with us on a series of products which we will be coming out with next year.

The technology you use has also attracted a lot of attention and various license agreements, including AT&T and Paramount. Tell me a little about this technology and when we may see the results of this.

We believe that technology is a very important component for a really powerful interactive experience. Some people say that content is everything, some people say that technology is everything. We believe they are both important.

For us, unlike a movie that you watch in a theater or a videotape you play back on your VCR, the technology can influence the playback machine, which in this case is the computer. On a VCR when you play a tape, it is all content. The tape can't enhance your VCR to do something it couldn't do otherwise. Whereas when we ship a CD-ROM, we can ship a 600MB CD-ROM with 599MB of content and 1MB of executable code that can actually enhance the player and give us an unfair advantage over someone else. Because of that the technology is very important.

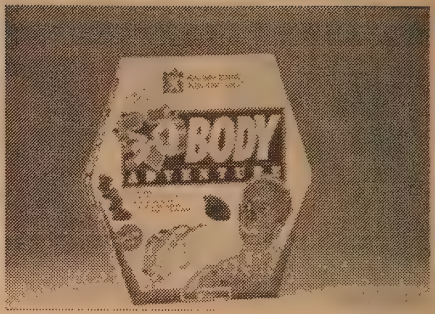
We have concentrated on creating compression technology, 3-D technology, virtual reality technology, and searching technology trying to do anything that will create an unfair advantage and make the experience better. We continually invest in developing the technology as opposed to using off-the-shelf tools. We have a team of Cal Tech programmers creating new technology to make our products.

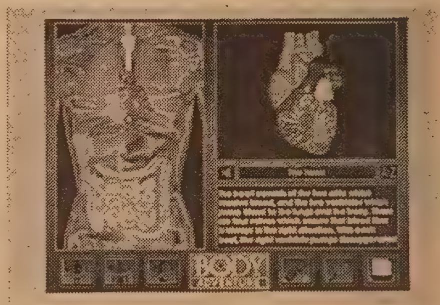
We are willing to push the technological barriers if it allows us to do new ways of storytelling or new kinds of experiences. In the course of doing that we are also willing to license that technology and partner with other people to make that technology have a more widespread base and to help leverage the cost of developing that technology.

Who are the licensing agreements with?

AT&T is working with us on some of the interface technology to make 3-D worlds that might potentially happen online. We use some of that technology in some of the games inside our products, but we think it can also be used very beneficially in a 3-D environment that would be online with multiple users.

The compression technology that allows us to put more hours of movie on a CD-ROM than anybody else might be licensed to other people as well.





Is online one of the areas where Knowledge Adventure is heading?

I believe that online is going to take over the world. It doesn't matter if it does or not because some other form of delivery will take over the world. We can't control which one it is, but we have to be prepared for whatever it is. Again, our goal is just to make compelling stuff and then reach a lot of people.

Three years ago when we started, the way to reach a lot of people was to use our compression technology to deliver a multimedia experience on floppies. Today, CD-ROM is a delivery vehicle that can reach a lot of people. In two years, the Internet might be the way to reach everybody in America. If it is, we will make our experiences there.

One of the huge advantages of online, aside from unlimited quantity of information access, or from not having to physically distribute a piece of plastic, go to the store and buy a lot of cardboard around that piece of plastic, is that the experience can change. It can be backed up by other live people, as opposed to a computer. You can't make an algorithm for a computer game that is as good as a real human being on the other end. In some ways that implies competition, and online can make a better environment for competition than can ever happen with a standalone computer. But I think online can also make for better collaboration than can ever happen alone. We want to make products

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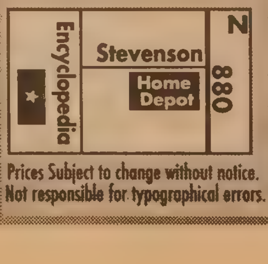

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that have online collaboration possibilities where fifty or a thousand, or just two, people can get together and do something that cannot be done alone—and have a better experience because of that. We want to invent those kinds of products.

Is this where Knowledge Adventure Worlds fits in?

Knowledge Adventure Worlds is a subsidiary of Knowledge Adventure, and is focusing on the 3-D, online worlds. They are the ones working with AT&T.

Knowledge Adventure Worlds is based in Washington, D.C., closer to a lot of the telcos and cable companies because of lot of the things that will be going on online won't be happening from Los Angeles.

There has been a lot of growth and change for Knowledge Adventure this year. Last month you hired a new president. What role will she play?

We have grown to the point where the organization's rate of change needs as much experienced management in that kind of growth as possible. We were very fortunate to be able to recruit Ruth Otte, who was the president of the Discovery Channel. She had managed the growth of Discovery Channel from several million subscribers to sixty-two million subscribers, from a couple million dollar company to a hundred million dollars, and from twenty-nine people to five hundred people. All the same problems of growth that we are having, she has been through.

In addition to her ability to manage that kind of growth she also has insights into where the delivery method will happen in the future over cable that will really benefit Knowledge Adventure if that ends up being the way that interactive gets distributed to the home.

A look around your offices and you can see how fast everything is changing—wires strung everywhere, desks lining the halls. How much is the feel and vitality of the company changing, and how much is this change impacting what you believe is the right way to keep the company nimble?

Nimbleness in this business is one of the most important things because everything is changing so fast. It definitely gets harder as we grow. It is much easier to be nimble with ten people that it is with 150 people.

The way we have combated that is by breaking into very small teams, usually no bigger than ten people, and by keeping everybody in pretty close physical proximity. Although that makes the surroundings tight, it keeps the communication very high. People are not in closed, private offices. People are sitting in the thick of things with teams that are very connected to what is happening with other teams as well as with their own team members.

As we continue to grow this is going to be a very difficult problem and we plan to address it by emulating everything that worked for us when we were small as opposed to trying a new model.

Last winter, after a significant push to finish several new products, you took everyone for a three-day skiing holiday to Yosemite. Is that still possible now that the company is twice as large?

We actually took everybody to Mammoth for a three-day ski trip. We rented buses and got lodges right near the lifts. It was a great time for the whole company. We had sixty people in the company but about 150 people went because we invited the whole family.

This year after the crunch we have 150 people, that probably means three hundred or 350 people on a trip like that. It will be more difficult, but we definitely will do it. It was such a bonding experience for the whole company, and such a great reward for all the hard work.

continued on page 246

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- Dial In/Out Server
- Fax Server
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16-bit NE2000 compat, 10BaseT with jumper	38
16-bit NE2000 compat, coax, jumperless	41
16-bit NE2000 compat 10BaseT, jumperless	41
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AUI to Fiber Optics Transceiver (palm size)	218
AUI to BNC tranceiver	45
25' RG58 pre-made cable w/2 BNC	14
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50 Ohm terminator with ground chain	4

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VESA Local Bus Busmaster 2-in-1 Combo, jumperless	130
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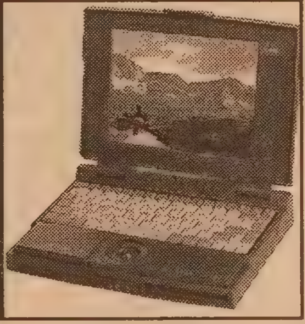

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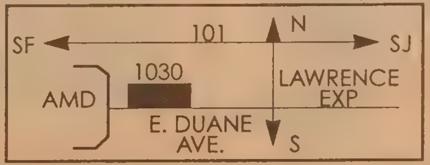

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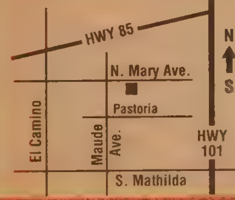

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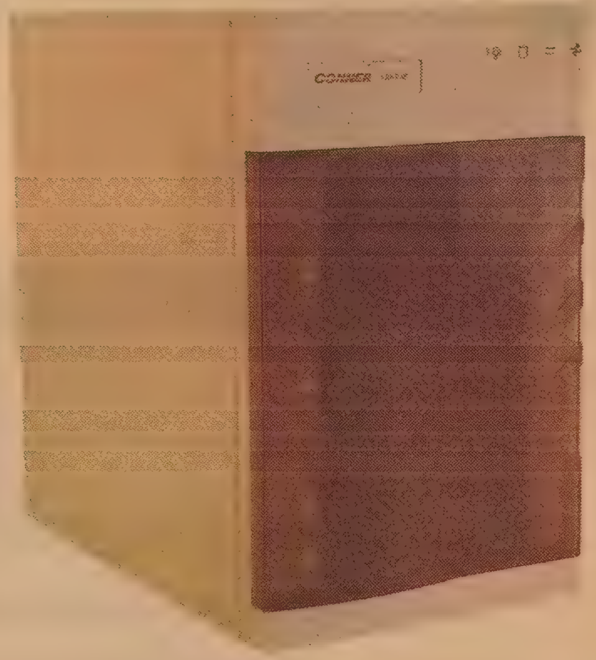

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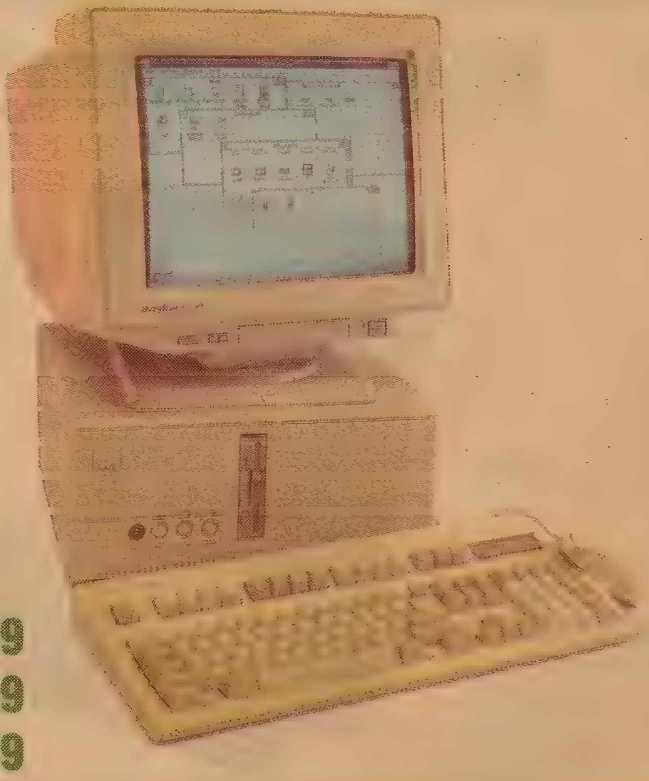

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TAX Deductions For Computer Software

It Makes Little Difference For Tax Purposes If You Buy Software Just In Time To Have The Elves Wrap It Or If You Wait Around For A January White-Out Sale.

By David A. Simon, CPA
and Jennifer R. Cherniss

New rules define the size of your tax deduction for software used for business purposes and purchased in 1994.

Under the old rules, for software purchased before August 10, 1993, you could generally deduct the cost over a five-year period. That may seem like an excessively long period for something as ephemeral as software, and Congress finally figured that out.

If that isn't how you treated software on your 1993 tax return, however, don't panic. The effect was tempered by a ruling that allowed you to write off the cost more rapidly if you could establish that the particular software clearly had a shorter useful life. This loophole led to a lot of haggling and bickering with IRS auditors, often over small dollar amounts, by folks who would just as soon litigate the amortization life of an icon. Congress finally had enough of it, and put those pesky tax controversies to bed with enactment of yet another Code section.

The new law sets out a general thirty-six-month period for the amortization of computer software, regardless of whether or not you can establish a shorter useful life. For those who like it straight from the horse's mouth, Section 167(f) of the Internal Revenue Code states, in part:

(1) Computer Software

(A) In general. If a depreciation deduction is allowable under subsection (a) with respect to any computer software, such deduction shall be computed by using the straight line method and a useful life of 36 months.

(B) Computer software. For purposes of this section, the term "computer software" has the meaning given to such term by section 197(e)(3)(B); except that such term shall not include any such software which is an amortizable section 197 intangible.

In plainspeak, depreciation for off-the-shelf software is determined by deducting one-thirty-sixth of the cost per month, starting when you buy it (or, more precisely, when it is "placed in service").

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MI 486DX w/256K Cache (3 VL Bus/IDE I/O On board)	165
MIS 486DX w/256K Cache (2 VL Bus / SCSI-2 / IDE I/O)	189

PCS

Pentium PCI 60/66MHz w/256K Cache	228
486DX4 VLB Opti chipset w/256K	99

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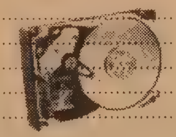

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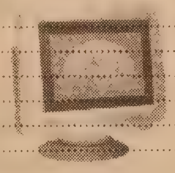

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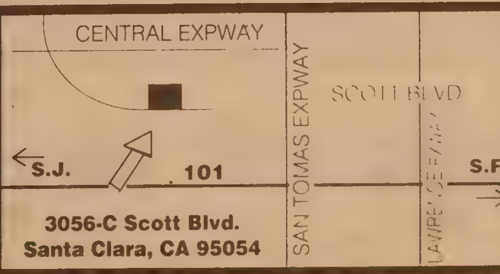

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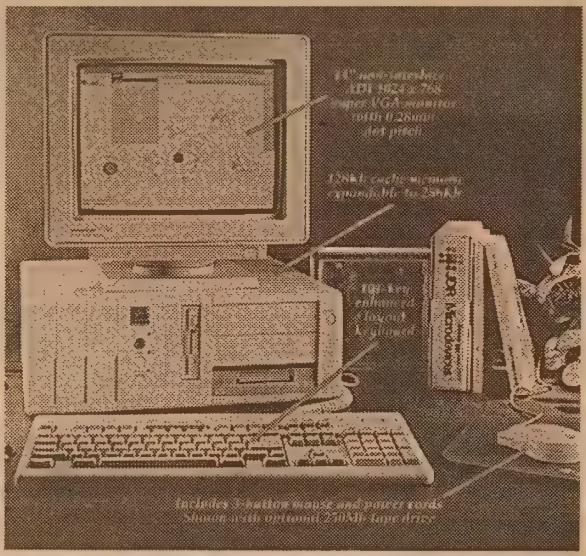
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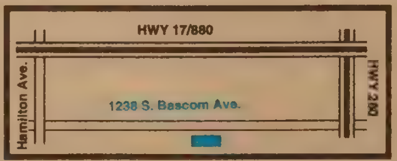
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Tax Deductions

continued...

So if you buy the package this December, you can only deduct one month's worth of amortization, or one-thirty-sixth of its cost, on your 1994 tax return. Some people mistakenly rush out to buy software just before their favorite computer store closes on December 31st, hoping to get a last-minute tax break. Don't expect much tax mileage for that trip.

It makes little difference for tax purposes if you buy software just in time to have the elves wrap it or if you wait around for a January white-out sale. If you're fishing for a last-minute write-off, consider purchasing hardware instead, because it is treated differently.

What Is Computer Software?

Not everything that measures 3.5", comes shrink-wrapped, and flops is considered to be "computer software" by the tax police. Computer software is defined for depreciation purposes as "any program (i.e., any sequence of machine-readable code) that is designed to cause a computer to perform a desired function."

But a database or similar item (other than a database that is in the public domain and is incidental to the software) doesn't count as software for purposes of depreciation deductions.

> If you're fishing for a last-minute **write-off**, consider purchasing hardware instead, because it is treated differently.

For example, I recently purchased an electronic dictionary and thesaurus. It integrates seamlessly with my word processing application, providing spell-checking and other look-up features. It looks and feels just like the standard spell-checker that comes with that word processor but is substantially enhanced.

According to an example in the House Committee Report, a dictionary feature employed to spell-check a word processing program does not fall within the definition of "computer software" for depreciation purposes. Instead, it gets treated differently, and the old rules continue to apply.

Deducting Updates

Another frequent question is when the cost of updates for business software can be deducted. Surprisingly, existing authority fails to squarely address this obvious question.

If the original software falls within the statutory definition of computer software, presumably the updates would too. But does an update merely supplement older versions, in which case earlier versions continue to be used and depreciated? Or does one update replace the update that came before it, in which case that old version should be retired and any unamortized balance gets written off?

In the absence of more specific legal guidance, I would contend that a more recent update replaces an earlier one; and therefore the taxpayer should deduct any unrecovered portion when buying the replacement.

Arguably, an update also replaces at least a portion of the original release. If the original program costs, say, $500 and the first update costs $100, you'd think that one-fifth of the unamortized balance of the original program should be written off at the time of updating.

There's Always More Megillah

As with any tax accounting rule, there are exceptions to the thirty-six-month amortization period.

First, if software was currently deductible under the pre-August 10, 1993, tax law, it continues to qualify for that treatment. This will be the case for many computer software developers who incur in-house software development costs.

Another exception involves special rules applying to software acquired after August 10, 1993, in a transaction (or series of transactions) involving the acquisition of assets constituting a trade or business, or a substantial portion of a trade or business. In that case, the software is amortized over a painstaking period of fifteen years.

The specialized rules dealing with business acquisitions are well beyond the scope of this article. In any event, they do not apply to software that is readily available for purchase by the general public, is subject to a nonexclusive license, and has not been substantially modified. So, if you're only dealing with off-the-shelf packages, the long amortization rule can't touch you.

Another exception is a favorable rule that can benefit just about anyone. It applies to bundled software, meaning that the software is included as part of the cost of hardware without being separately stated on the invoice. This rule dates back to the good old days, when you could buy an IBM 360 for a few million dollars or so, and Big Blue would toss in the operating system for free. Back then not every business Joe and his bean counter knew what an operating system was, and it certainly wasn't perceived as a thing of value.

Under the bundled software rule, the cost of the software can be treated as hardware cost. This allows many taxpayers to rapidly depreciate the cost, or elect to deduct it entirely in the year of purchase instead of amortizing it over thirty-six months.

The IRS will buy into this treatment if (1) you consistently follow the practice of treating the cost of software as part of the cost of hardware that is capitalized and depreciated; and (2) the software costs are included on the invoice as part of the cost of the hardware (computer), with no separate charge.

Although this rule may seem hopelessly antiquated, when the rules changed in 1993 the House Committee Report affirmed the bundled software rule as alive and well, providing manna from heaven for some taxpayers.

To illustrate, Hillary is eligible to deduct the cost of her computer as a miscellaneous employee business expense. There would be little or no tax benefit if she amortizes the cost of software over thirty-six months because, as itemized deductions, employee business expenses are deductible only to the extent they exceed 2% of adjusted gross income. Instead, Hillary arranges to have her dealer bundle the software with the hardware purchase, and elects to deduct the whole kit and caboodle in the year of purchase. By bunching all the write-offs into a single year, the dollar amount is large enough to clear the 2% hurdle.

Hardware Is Different

Although the terms "amortization" and "depreciation" are frequently used interchangeably, in tax land they are technically different. Amortization ordinarily refers to the ratable deduction allowed for loss in value of intangible property due to the passage of time; as distinguished from depreciation which reflects wear, tear, and other diminution in the value of tangible assets.

If property is entitled only to amortization, as in the case of software, the cost recovery period is limited to a proportionate (i.e., straight line) deduction over its amortizable life. Computer hardware used in a business, on the other hand, is depreciable. Often, therefore, the costs can be recovered more rapidly.

The rules for depreciating hardware are quite different from those governing software, and are considerably more complex due to the so-called "listed property" rules that apply to computers, automobiles, and certain entertainment equipment. ■

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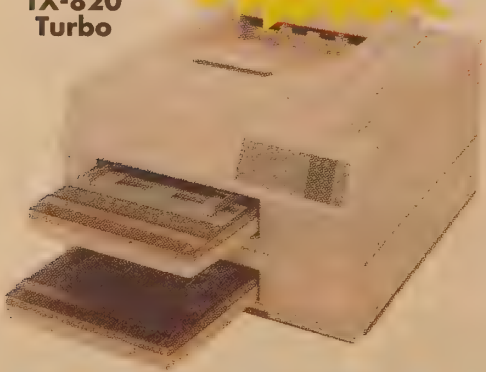

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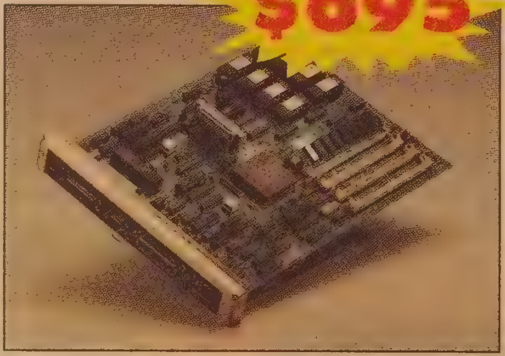

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1994 Stocking Stuffs For Amiga Buffs

By Douglas J. Nakakihara

An Amiga user is certainly a more difficult person to shop for than someone who owns a PC or Macintosh. With luck, the following list will give you some inspiring thoughts on what you can buy your favorite computer owner—or even yourself.

Most gift-givers are looking for affordable things, so let's start with that.

Subscriptions

Magazine subscriptions represent the best dollar value for gifts, in my opinion.

Two main Amiga-specific US publications are available, *AmigaWorld* and *Amazing Computing*. Despite their common subject matter, they take considerably different approaches; I have a subscription to both and don't find much duplication, aside from perhaps the advertising.

Generally, *AmigaWorld* has a more refined look, and the articles mirror this. *Amazing Computing*, on the other hand, has more of a grass-roots feel. There is much less structure to this publication, and the articles seem generally to include much more depth and detail. If there's a downside to this approach, it's that sometimes you may not care a whole lot about what they are detailing.

Amazing Computing also puts out an informative semi-annual guide to Amiga products, which is optional with the subscription. Since most users don't subscribe to both publications, you probably won't be duplicating subscriptions.

VideoToaster User is a fine publication for anyone who owns a VideoToaster. It provides a lot of hands-on information and product reviews. The publication has an extremely "tight" relationship with NewTek—although there are reportedly no ownership ties—so you often get some really cool insider-like information.

Assuming the Amiga survives, video is and will be its biggest market, at least in the US. This year, *VTU* went from a bimonthly publication to monthly and I haven't noticed the size getting smaller. Jim Plant, the original editor-in-chief, is back, and the magazine is returning to its original useful style, after deviating from this course for a while.

LightWavePro is an absolute must-have for anyone who works with the 3-D animation program LightWave 3D. Although it bills itself as a newsletter, it is much more. It includes several pages of color glossy pictures and runs about twenty pages from cover to cover.

Its relatively high subscription rate reflects the fact that there are very few advertisers, but it is worth every penny. Each month there are several detailed tutorials on how to do various things with LightWave. Contributors include some of the animators from Amblin Imaging (*seaQuest DSV*) and Foundation (*Babylon 5*). In fact, the editor, John Gross, is an animator at Amblin.

Even if your intended recipient already has a subscription to one of these magazines, you can always extend their subscription for them. Just call the subscription department up; I know they will be more than happy to work with you.

Books And Tapes

ARexx, an Amiga scripting language, has become one of the key advantages to owning an Amiga. Still, a great many Amiga owners are puzzled by it and are missing a powerful built-in tool.

Amiga Stocking Stuffs *continued...*

The ARexx Cookbook by Merrill Callaway is a great starter book and includes many tutorials. There are a lot of instructional videotapes available too, particularly for the VideoToaster and LightWave; the ones with the "smartest Toaster guy" Lee Stranahan are quite good. Lee is as informative as he is entertaining.

How about giving a vacation? AVID Publications has put on some Toaster/LightWave seminars around the country, including some in Hawaii. Some of the sessions feature Stranahan as well as other recognized experts.

Software

You know, it's really hard to buy someone software, unless they've already asked for a specific title.

However, at least one of the mail-order places that advertise in the above-mentioned magazines list their top sellers. This will give you a very good starting point. You can also always call them up and ask for suggestions.

One thing you want to find out first, though, is what type of Amiga system will be used. You should at least know the Amiga model number. Other questions you may face: how much RAM does it have; how big is its hard drive; does it have an accelerator board; what kind of printer is it connected to, etc. All of this is extremely important if you want the person to be able to run the software you give them.

You want specific suggestions? Well, at the top of my list is Pegger 2.0. It is an automatic JPEG compression program that most Amiga owners could really use, particularly those who work with 24-bit graphics and/or video. For graphics painting, you can't go wrong with DeluxePaint. If it will be run on an Amiga 1200 or 4000, make sure you get the AGA version. There should be a wonderful new release of this product out by the time you read this.

For image processing, I'd recommend either Art Department Professional or ImageFX. ADPro is pretty much the standard, but ImageFX is powerful in its own right. Though they share a great many common features, they are very different programs, and owning both is by no means overkill. ADPro was recently significantly upgraded with v1.5, and v2.0 of ImageFX is due out very soon. It is important to note that ImageFX includes several things, most notably a morphing program and painting abilities, that don't come with ADPro.

LightWave 3D has finally been unbundled and would be a well-received gift for anyone who doesn't already own a VideoToaster. Other programs you might consider are Final Writer or Final Copy II for word processing, PageStream for desktop publishing, Bars and Pipes for music scoring, VideoStage Pro or Scala for presentations, and Brilliance for painting. There are tons of games, too!

There are several good Amiga-specific CDs available. Thousands of PD utilities and applications are included on the "Fish"-series and Aminet CDs. The Mod Madness CD contains tons of music modules for hours and hours of listening pleasure. Syndesis puts out some very nice CDs with 3-D objects called 3D-ROM volumes I and II. All of the objects come in multiple formats including LightWave.

Amigas can also generally read CDs made for the PC as well as the Mac. Of course you won't be able to execute PC or Mac programs on an Amiga (without an emulator), but data files that are used by other programs can be very useful. Examples include fonts, audio samples, pictures, and clip art. Since pictures often do not come in Amiga formats, you may need something like ADPro or ImageFX to translate them. For fonts, your only real alternative is TypeSmith, the newest version of which supports PostScript and TrueType fonts. Audio sample CDs often come in WAV format, and there are some good PD conversion utilities available for the price of a download.

Beware—a lot of these CDs are so-called "shovelware." Not a lot of thought went into them, so the CD's contents may not be of the highest quality. Price is often a good indicator, but not always. I'd rather pay a little more for something I can use than get a bargain on something useless.

Look for CDs that come with a referenced printed catalog of their contents. What good is a CD with five thousand PostScript fonts, if you have to go through each one to see what it looks like? Furthermore, since most CDs use the eight-character MS-DOS file naming standard, you are generally looking at a directory of files with names like "MCARTBLD.PFM"—not a whole lot of help, eh?

Hardware

If the Amiga user has more than one Amiga, AmigaLink would make a great gift. This low-end networking product uses the floppy disk ports on the machines. A lot of Amigans use ParNet, but AmigaLink acts much more like a real network and doesn't monopolize the parallel port.

Adding a 24-bit graphics card can breath new life into an Amiga 2000 or 3000, and is even useful on a 4000. Several are out there, but I like either the Picasso or Retina.

CD-ROM drive prices have dropped considerably, and now may be the time to get one. All CD-ROMs require an interface and there are basically three types: SCSI, IDE, and proprietary. Proprietary interfaces are generally bundled with the CD unit and are usually useless on an Amiga (unless they are run in a PC slot with a PC bridgeboard). I would guess that an IDE CD-ROM should work with an Amiga 4000's or Amiga 1200's built-in interface, but I'm not sure. Check with an Amiga dealer first. SCSI is the most common Amiga interface and is generally compatible with any SCSI CD-ROM. These are often units made for the Mac.

There are many features that differentiate CD-ROMs, but probably the most hyped is the rotation speed. You'll often hear the terms single-speed, double-speed, triple-speed, and even quad-speed. The basic difference is how fast the data can be read from the CD. Quads are obviously faster than doubles.

You'll also see terms like XA-ready or compatible, multi-session, etc. These terms relate to the drive's ability to read Kodak PhotoCD and the VideoCD discs. No single-speed drive has these capabilities, but most double-speeds do. It should be pointed out that these two things have not really caught on and single-speed SCSI drives can be had for as little as $100. Recently, I got a nice external double-speed unit for under $200!

You'll also need CD filesystem software, since it is not yet part of AmigaDOS (<3.1). This should be available from any Amiga dealer. However, there are PD filesystems, which I am told work just fine, available on many BBSes.

Keeping in mind the same interface requirement, a hard disk would be a much appreciated gift. I've seen one-half gig hard drives for around $300. They even carry them at the local club store! Of course these are IDE drives, but SCSI drives at the computer stores are not much more.

Tape backup drives are also useful items. Generally, the Amiga is not compatible with the standard PC types. You'll usually need to get a SCSI tape drive. 4mm DAT drives are the most common type and these hover around the $1000 mark, give or take a few hundred dollars. Exabyte 8mm drives are an alternative, but these are twice as expensive! The advantage of Exabyte drives, however, is that they are the professional standard used to transfer graphic images.

Tape drives also require backup software. I've used Ami-back for years without problems. Tapeworm is a great product too—it allows you to use a tape drive like a standard hard disk. Granted, the linear nature of tape negatively impacts performance, but it works pretty well for storing things like animation frames.

If you select some type of external SCSI device, be sure to also get the correct cable. Amigas normally have 25-pin connectors, but often a 50-pin one is needed, especially if there is already one external SCSI device connected. It's pretty disappointing to get a new toy and not be able to use it right away because you don't have the right cable. There is also something called "termination." Suffice it to say that generally you should buy an external device unterminated and get a external termination plug.

Don't be afraid to ask a friend of the gift recipient for suggestions. They may know exactly what the person wants. An Amiga dealer may also offer helpful suggestions and if there isn't one near you, call one of the Amiga mail order houses.

Well, have fun shopping and have a merry Christmas and a happy New Year! ■

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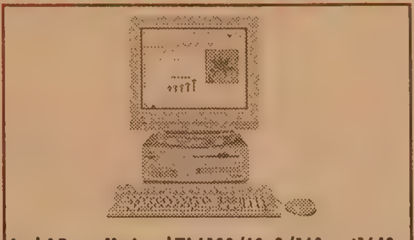

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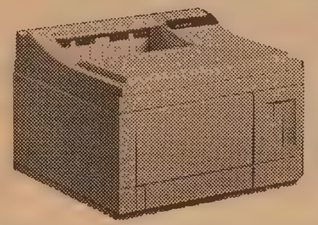

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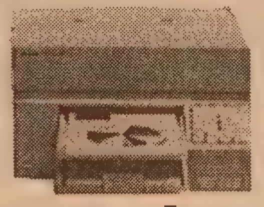

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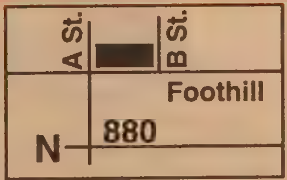

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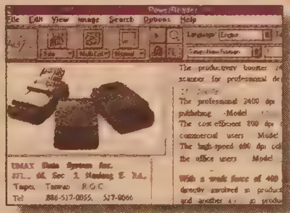
Wordlinx by OCRON [illegible]

- New Version
- Twain Compliant
- WYSIWYG Text Formatting
- Auto DeSkew

PowerReader by UMAX $79



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- Capture & Edit
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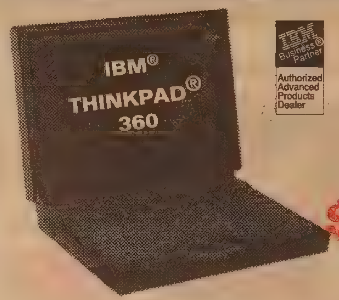

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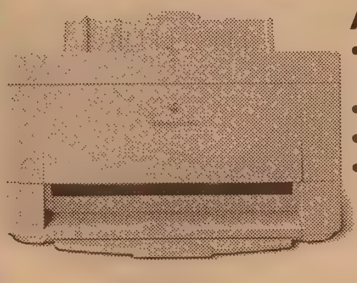

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Fun & Games

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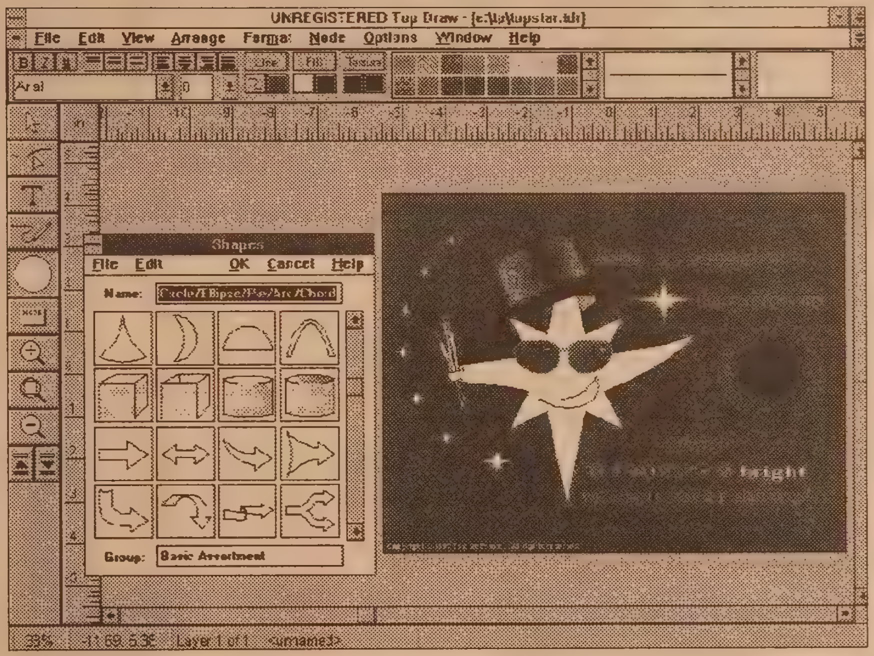
Holiday Shareware Roundup

The Year's Best PC Software Buys

By Lenny Bailes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bright
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While heavyweights in the software world duke it out to see whose $500 to $1000 products will dominate the marketplace, the PC shareware world continues to offer great bargains. For under $100, you can find productivity applications, useful utilities, and games that match the features found in well-known commercial packages. You may also find a few unique, specialty items that have no equivalents in the commercial world.

Shareware programs can be had for the cost of the diskettes that contain them, or downloaded from your nearest public bulletin board system. You have a period of weeks or months to evaluate the software at your leisure. If you decide that you like what you see, a registration fee of less than $100 will get you full documentation, technical support, and access to program enhancements.

The Association of Shareware Professionals is an organization that exists to monitor program quality, protecting both authors and consumers. If you find a READ.ME file included with a package that proclaims the author a member of ASP, you have several guarantees: 1) you won't be getting a "crippled" package that deliberately disables program features, 2) the package has been tested to meet certain standards of quality, and 3) the authors won't suddenly skip town when you need technical support. The following packages are among the Shareware "Cream of the Crop" for 1994, suitable for holiday season presents, or as introductions to the vast worlds of DOS and Windows software:

TopDraw: A Professional-Level Drawing Package

This Windows program would make a great gift for artsy, graphic-designer types who don't have the financial resources to own Freehand, or CorelDRAW. It implements enough features to let you construct professional-looking posters, logos, and clip art.

TopDraw is a vector-drawing package that allows you to edit and manipulate bezier curves and geometric shapes, rotating, skewing, adding, and deleting nodes. You can automatically duplicate objects, transfer object styles, and add objects on multiple drawing layers. The tools palette includes multiple zoom views, freehand drawing, node-edit, text, and custom shapes. You can paste in bitmaps and vector objects through the clipboard, or import them as .BMP, .PCX, or Windows Metafiles. Text can be fitted to a curve or line, and converted to bezier curves; screen-objects can be rotated in 1-degree increments. Images can be edited in full-screen preview, or represented as wire frames.

The custom drawing pens and fills allow you to create two-color gradient fills in a variety of blend patterns, with control over the gradient steps. It supports two color schemes: RGB (red-green-blue), and HSB (hue-saturation-luminosity). The shapes palette includes one hundred predefined figures, including musical notation, common geometric shapes, and a variety of wire-frame and full-color symbols.

Although the unregistered version does not include a manual, the program is easy enough to use for anyone who's ever tinkered with a professional drawing package. Registration brings a manual and a series of extra patterns for the texture palette.

TopDraw requires Windows 3.1, a VGA display, 4MB of RAM, and 2MB of free hard disk space.

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Holiday Shareware Roundup *continued...*

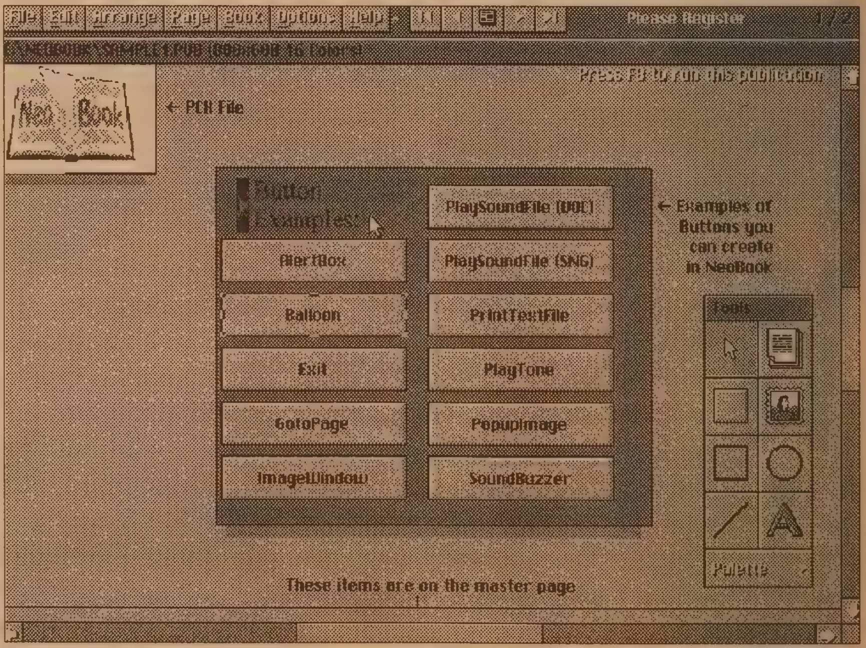
The NeoSoft Suite

Last year we reviewed NeoSoft's NeoPaint, a full-featured paint program and graphic image editor. In 1994, NeoSoft issued a suite of additional shareware utilities and applications.

QuikMenu is a graphic, point-and-shoot desktop interface/file manager, reminiscent of GeoWorks. It sits on top of DOS, allowing you to create program or datafile icons on the desktop, display a tree-based file manager, view files, or pop up a series of desktop utilities (including a calendar, calculator, and phone book). QuikMenu makes a great menu/front-end for novices unfamiliar with the intricacies of DOS or Windows.

NeoShow is a desktop presentation utility that allows you to create simple slide shows from bitmapped .PCX or .GIF images. It includes a variety of animated transition effects, fades, wipes, dissolves, etc. Prerecorded sound files in the Sound Blaster .VOC format can be attached to slides. NeoShow Professional, an upgrade package, contains a run-time compiler to assemble your shows into .EXE files that can be freely distributed.

NeoBook is a hypertext/multimedia/desktop presentation package. You can use it to create interactive slide shows, combining text, graphics, and sounds. NeoBook allows you to create buttons to page forward and backward in a presentation, pop up additional text balloons or graphic images, play sound files in .SNG or .VOC formats, or print specific text files. NeoBook will let you construct electronic newsletters, interactive books, magazines-on-a-disk, or sales presentations and product literature. NeoBook Professional allows linkage to external sound editors, and audio playback through Sound Blaster-compatible cards or the internal PC speaker.



Jam, A Disk Compression Utility

This Stacker clone was written by a programmer in the Ukraine, and it works! If you're looking for additional hard disk storage space, and don't own either Stacker or a version of DOS with Doublespace/Drivespace, this shareware utility efficiently and reliably expands your hard disk by 200 to 250%.

It includes all of the same features as its commercial counterparts, except for the ability to automatically recognize a compressed boot drive. Jam includes its own utilities for directory display and disk optimization, which transparently replace DOS utilities. Compressed volumes can be mounted, unmounted, or swapped with uncompressed drive letters via Config.sys statements, or with command-line batch files.

If you already own Doublespace/Drivespace or Stacker, this program can

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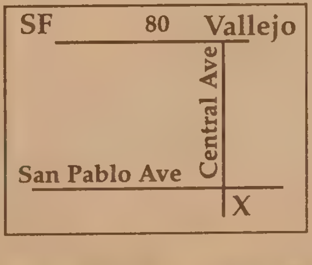


Holiday Shareware Roundup *continued...*

coexist with these commercial compression schemes, allowing you to temporarily create and mount smaller compressed volumes on an uncompressed drive. (Jam creates more storage space than Microsoft's compression schemes or Stacker 3.1. It can be registered for only $11, if you already own one of these products, or $49, if you want to use it with DOS 5.0 and below.)

College Bound Advisor

This menu-driven database is designed to help high school students select a college, apply for scholarships, and budget projected college expenses.

It presents a series of hypertext essays on seeking financial aid, scholarships, and loans, as well as a listing of information sources, state agencies, and glossary of terms. A letter-writing feature lets you use the databases to create letters requesting information from various universities. Spreadsheets allow a potential student to calculate cost comparisons by entering data for estimated family contributions and projected yearly expenses for tuition, room and board, etc.

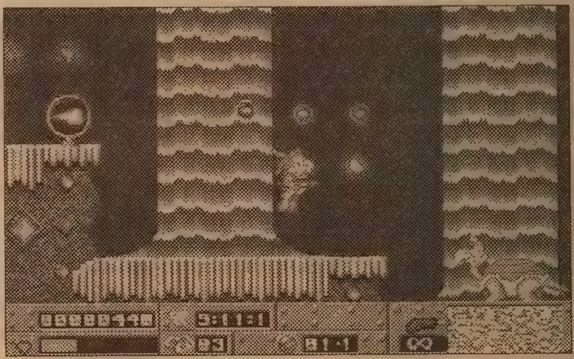
The essays include information about various types of scholarships, loans, and work-study programs, and hints on how to qualify for financial aid. Tutorial material debunks the idea that students from middle-class families can't qualify for assistance, providing a list of self-help strategies. A comprehensive pop-up list of state agencies makes it easy to generate letters of inquiry about available programs. A direct dialing feature allows a modem to dial telephone numbers included in the attached database through a Hayes-compatible modem.

Games

And now that we've covered a few of the useful and educational packages out there, here are some colorful, action-adventure games for the junior-high school set.

•Jazz Jackrabbit: It's up to Jazz Jackrabbit to run up and down the length of the planet Diamondus, search for the captured Princess Eva Earlong, and save the Galaxy from Turtle Domination.

JAZZ JACKRABBIT
(C) 1994 EPIC MEGAGAMES



The monotonous scheme of "encounter villain and blast through to the next level" is offset in this Epic MegaGame by the imaginative quality of the landscapes and the cartoon animation. You run the rabbit through an endless array of extra-terrestrial landscapes, jumping from mountain to mountain, and wading through underground caverns as you destroy the minions of turtle terrorist Devon Shell, picking up ammo and carrots on your tour of the exotic landscape.

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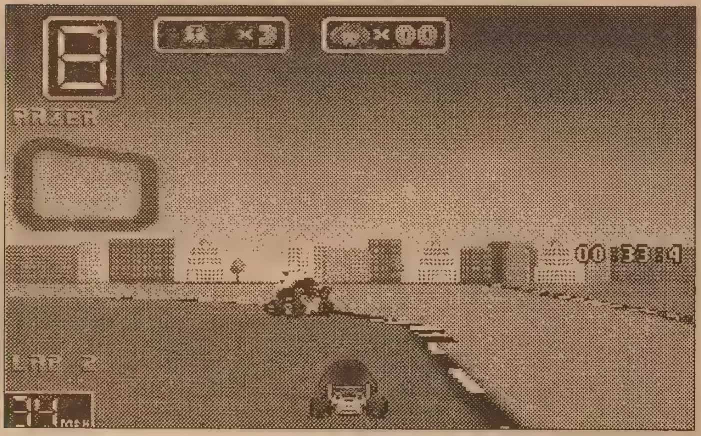

The shareware version includes four levels of difficulty and one episode. Registering the package allows you to buy up to five additional episodes, thirty-six game levels, and 5MB of cartoon animation. Jazz Jackrabbit requires an 80386 33MHz machine with 4MB of RAM and a VGA display.

•Wacky Wheels: Wacky Wheels is a funny-car racing adventure. Your funny-animal driver is pitted against seven rivals, some of whom can be other real-time players. You zoom around the track, competing with opponents who are programmed to analyze your playing style, bump you off the road, and occasionally toss obstacles in your path.

As is typical in Apogee games, there are a number of extra features for players who get bored with the main event. The race track includes options to shoot at ducks, mow down hedgehogs, and engage in combat with other drivers. But believe it or not, Wacky Wheels is less violent than the bulk of the Apogee catalog, which includes famous "zoom and shooters" like Wolfenstein 3-D and Raptor. A computer journalist acquaintance of mine takes real-life pleasure in gunning his engine through parking lots and mowing down hapless pigeons caught in his path. This fits in fairly well with some of the advanced options of Wacky Wheels.

The basic shareware package includes one track scenario, and a number of practice routes. Online support allows two players to compete via modem. The full registered version includes twenty-one different track scenarios, sixteen songs, and a number of sound effects that can be played through a sound card or the PC speakers. Wacky Wheels requires 2MB of extended memory and a VGA monitor.

•Windows Detective: Windows Detective is an adaptation of the old Parker Brothers "Clue" with a new science fiction setting.

The object of the game is to be the first to solve a murder on a space station, identifying the culprit, the weapon used, and room where the crime was committed. You play against three famous "computer sleuths," moving between the "docking bay," "armory," "command deck," etc.

Inside each room, you interrogate suspects and pick up clues based on the cards dealt to you and the other players. You can pop up a virtual notepad to keep track of the eliminated possibilities. Alternate card sets with additional suspects and weapons can be downloaded free from various bulletin board systems.

There are three levels of play that increase the sharpness of your opponents' playing styles. In the registered version, you can turn on an additional feature that adds a list of six motives to the crime scenario. You then have four factors to nail down for your accusations instead of three. ■

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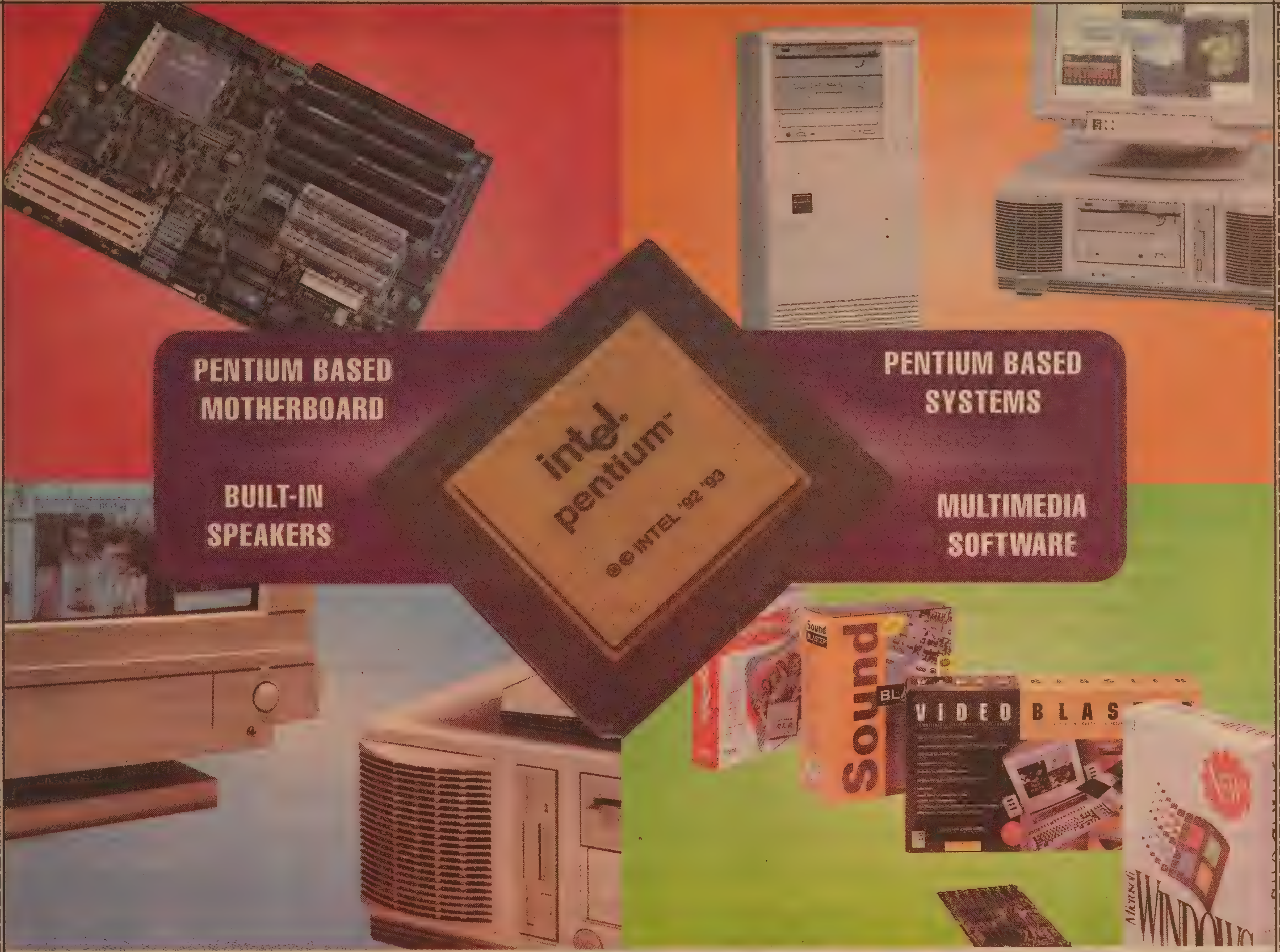

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Wacky Wheels ($24.95, $34.95 upgrade edition with 42 tracks)
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Jazz Jackrabbit (three episodes $25, six episodes $39)
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Windows Detective (WDETCT10.ZIP) ($15 US, $20 Canada)
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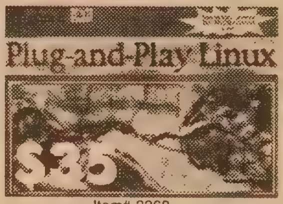
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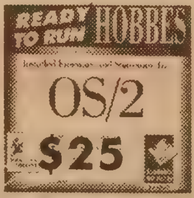
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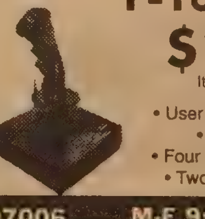

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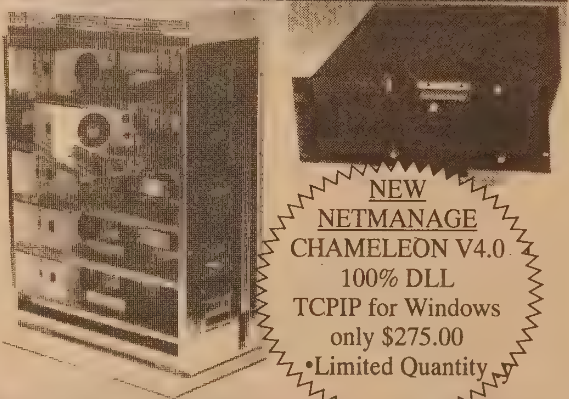

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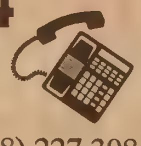

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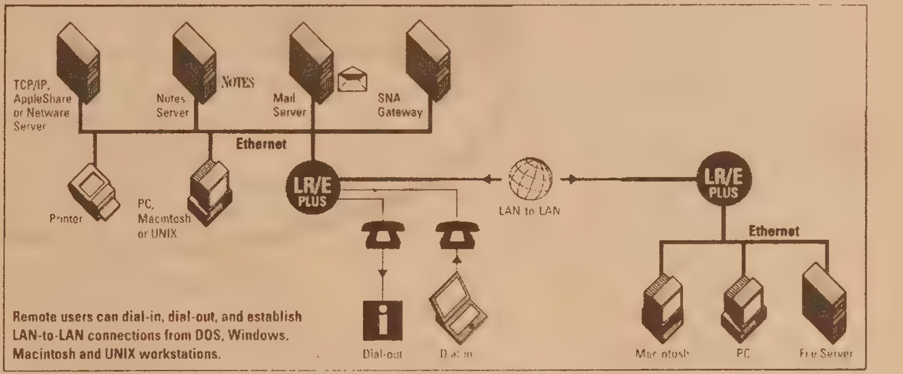

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Watching Windows At Work

By Woody Liswood

Can Choosing A Display Card Affect Windows?

Windows makes you more aware of screen redraw speeds. These days, even with a fast CPU, a standard VGA card is rarely sufficient. At higher resolutions you will be watching your screen redraw, rather than having everything snap into place.

There are a great variety of Windows accelerator boards available, each claiming to make Windows run faster than its competition. Currently, most of these boards run in the ISA or VESA Local (VL) bus environments. While a new industry standard—the PCI bus—is not far down the road, PCI cards and motherboards are not yet readily available.

The typical technical review of a new accelerator board is interesting, but you often need an EE degree to interpret it. Even after it is translated, that type of review seldom tells me much about the everyday experience of working with a particular board. I am less interested in the numeric rating of how fast the board tests than how fast my screen redraw will "feel" with the various applications I use. In other words, I want to know which board feels faster than another and which ones are too similar to make a noticeable difference.

To answer this question I looked at eleven boards, including ISA and VL bus versions. I also examined the new Power Graphite boards from Hercules. In addition to my own perceptions, I selected Texas Instruments' WinTech test program to compare my experience with more quantifiable results. Many manufacturers believe WinTech provides a fair test whose results can be used for comparisons. WinTech v1.2 gives performance test results for Word Processing, CAD/Drawing, Spreadsheets, and Paint programs as well as an overall rating.

Running The Tests

The testing was done using a 486, 66MHz Biostar motherboard with 20MB of RAM, managed by Netroom. The display resolution was set at 1024 x 768 with 256 colors. I was running the Program Manager as my Windows shell, with After Dark screen saver, PrintQ, and all the drivers to run my normal setup, such as SCSI drivers, a CD-ROM cache driver, and a scanner driver, in the background.

While in the final stages of testing, I upgraded my system with an American Megatrends 60MHz Pentium. I reran the fastest ISA and VL boards with the Pentium and added the results to the accompanying chart.

Test Results

The numbers on the chart give the most meaning when used for comparisons. I could

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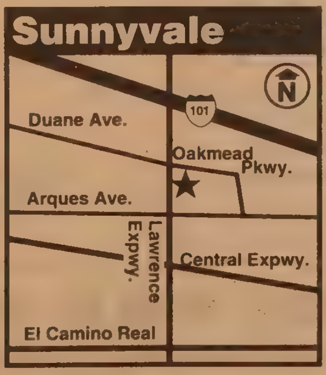

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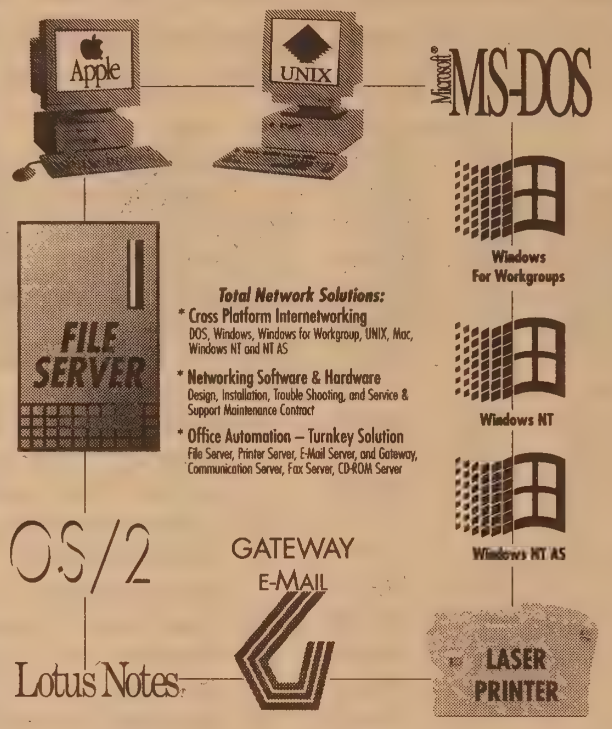

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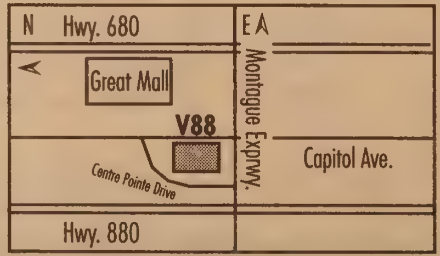

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Accelerator Cards

continued

not say, for instance, that the overall rating of 48.33 for the Hercules VL bus board is linearly or geometrically faster than the 46.61 rating for the Hercules ISA board. What I can say, is that the test supports my experience—the Hercules VL bus board seemed faster than the ISA board.

A quick summary of the results is that graphic accelerator boards really do speed up the process, and that, all other things being equal, the VL bus boards are faster than the ISA bus boards. Within the Hercules family, the new Power Graphite series is significantly faster than the older Graphite series. Also, to my surprise, switching from a 66MHz 486 to a 60MHz Pentium system made another big difference, for both ISA and VL bus boards.

Cost does not always guarantee better results. The less expensive, generic VL card was faster than the more expensive #9GXE ISA board.

Although it is generally safe to expect screen redraw speeds to be slower at higher resolutions, this is not always the case. Brilliant Computer Products Cloud9 in particular runs faster at higher settings. According to BCP, their boards are optimized for particular higher resolutions. The Cloud9 comes with 2MB of video memory on board, rather than the standard 1MB on the others.

BCP also uses an NCR graphic chip. While the board my not be as fast compared to the Hercules Power Graphite series, it is considerably less expensive and outperformed the clone boards I tested.

continued

RESOURCES:

Hercules Computer Technology, Inc.
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Number Nine Computer Corp.
18 Hartwell Ave.
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Accelerator Cards *continued*

Conclusion

In general, acclerator boards at the same level work about the same. The one main exception was the Video 7 Win Pro board, which had compatibility problems with my communications software. However, this may be less important now that Video 7 is no longer in business.

In today's marketplace, if you are getting a new system or upgrading your motherboard, you should give serious consideration to a VL bus accelerator board like the Hercules Power Graphite. Maybe tomorrow I will do this all again with PCI motherboards, but for now I am happy with the VL bus and its screen redraw performance. ■

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Board (System)	WP	CAD/Draw	Spreadsheet	Paint	Overall
Hercules Power Graphite VL (Pentium)	21.55	122.47	65.89	78.59	72.82
Hercules Power Graphite ISA (Pentium)	20.63	78.79	56.57	69.22	56.28
Hercules Graphite VL (486)	16.23	75.98	44.13	56.98	48.33
Hercules Power Graphite ISA (486)	17.4	72.24	46.69	50.12	46.61
Hercules Graphite ISA (486)	9.67	46.84	28.26	31.59	29.09
BCP Cloud9 VL (486)	20.17	18.73	39.37	26.67	26.24
Video 7 Win Pro (486)	11.46	35.53	34.4	22.52	25.48
Generic VL (486)	13.26	28.97	29.33	30.25	25.45
#9GXE ISA (486)	13.77	28.77	28.26	19.09	22.47
Generic VGA (486)	5.32	10.75	4.65	7.42	7.04
Trident VGA (486)	3.89	7.62	3.32	4.14	4.74

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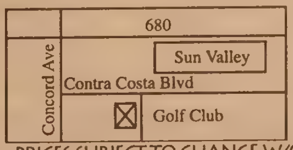

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Software Stocking Stuffers For Budding Young Animators

By Pamela Mason

Software Packages To Assist The Aspiring Animator

While drawing skill is not the only indicator of your potential for animation, it is often the common thread shared among successful animators. Chuck Jones, creator of the Road Runner and countless other cartoon characters, tells how as a young boy he inherited reams of letterhead stationary for sketching on from each of his father's spirited, but failed, business attempts. The Capital Children's Museum in Washington, D.C., currently has an exhibit called "Chuck Jones: An Animated Life." Terrence Rafferty in the *New Yorker* magazine writes, "Jones' drawings were never meant to be framed and nailed to walls, and, by rights, they should look forlornly inert there, like baseballs that were once propelled by Nolan Ryan or Bob Feller and now repose, lifeless and ordinary, in glass cases in Cooperstown. But, happily, for the Children's Museum, these pencil sketches are so bold and so dynamic that the figures in them appear ready to zoom right out of the frame."

Laying The Foundation

Kids who love to draw often fit the profile of the budding animator—they can be found crouched over their paper, drawing for hours—content to draw and color indoors on perfectly sunny days while other children play outside. To become animators, these children with an innate interest in art must take the next step and begin to develop a strong set of fine art skills: drawing, composition, color, and an understanding of perspective. These are best learned initially using traditional tools such as pencils, crayons, paint, and charcoal.

Software packages can be used next as an adjunct to traditional drawing. Like a pencil or paintbrush, software is another tool. It is not a substitute for talent. There are several software packages especially well suited to assist the aspiring animator.

Fractal Dabbler

Fractal's Dabbler is like an art school inside your computer. It is an excellent way to learn, or reinforce, the basics of drawing and painting. It has both online and manual art instruction using the venerable Walter Foster courses, *How to Draw, Volumes 1 and 2* and William F. Powell's *Color and How to Use It*. These are the classic step-by-step tutorials that have helped teach artists for many

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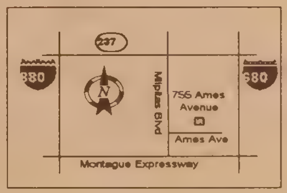

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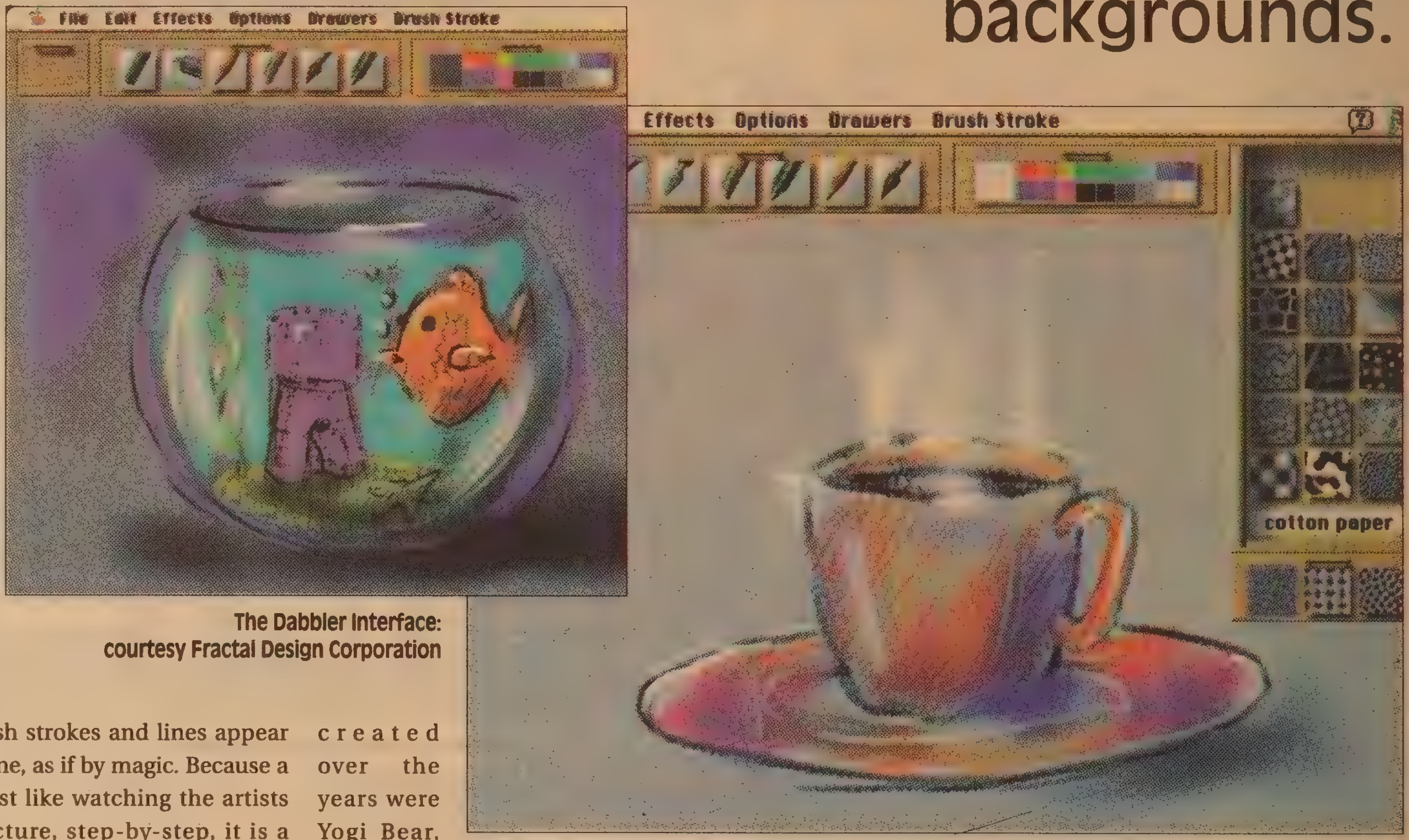
Budding Young Animators *continued*

years. Walter Foster explains, "If you would devote as much time as you do practicing writing, drawing an apple instead of writing 'apple' or drawing a flower instead of writing the word 'flower,' you will find that drawing becomes as easy as writing."

The eloquently designed Dabbler interface uses an intuitive tool drawer metaphor: just pull out whatever tools you need from a wood-grained desk drawer—pencil, pen, or marker. Choose the type of grain you want for your paper, open your sketchpad, and get to work! You hear the drawers opening and closing, markers make that familiar squeak, and a splash can be heard when filling an area with the paint bucket.

Cel animation is basically a sequence of slightly varying still drawings, filmed over painted backgrounds.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cotton paper

The Dabbler Interface: courtesy Fractal Design Corporation

Dabbler's Recorder function is unique. Some of the lessons from the printed manual were recorded for playback as self-running tutorials to be viewed on the computer screen. The brush strokes and lines appear on the screen one by one, as if by magic. Because a recorded session is just like watching the artists actually draw the picture, step-by-step, it is a tremendous teaching tool that is especially valuable for art training, because art, by nature, is very fluid and dynamic. For example, a painting might start with a vague wash of color, building layers in increasing detail. This layering is difficult to capture on the static printed page. Dabbler also has fully interactive controls for playing back a session over and over, or it can be stopped to study a particular point, freezing the invisible hand in mid-stroke.

Dabbler runs under Windows, on the Mac and Power Mac. It works best with a pressure-sensitive stylus and tablet. Fractal offers an Artpak bundle that includes Dabbler and a special Wacom tablet for only $239, suggested retail price.

The stylus and tablet allow you to apply pressure so that you can draw with lighter or heavier strokes, like you would with natural media. A digitizer tablet also allows for tracing hand-drawn drawings into the computer. Both are important features for creating computer animation and art.

Hanna-Barbera Animation Workshop

The Hanna-Barbera studio brought the first cartoon series to TV in the '60s—*The Huckleberry Hound Show*. Some of the other characters they created over the years were Yogi Bear, the Flintstones, the Jetsons, Top Cat, Scooby-Doo, and Johnny Quest.

The Hanna Barbera Animation Workshop is for creating 2-D cel animations and is an especially good choice for a first animation package or for younger kids. Cel animation is basically a sequence of slightly varying still drawings, filmed over painted backgrounds. Throughout the manual are great introductory-level overviews of various animation topics. The workshop consists of two main areas: PAINT, where you paint backgrounds, and ANIMATE, where you create the characters. The interface is designed with large, easy-to-understand picture icons for the main modules. For adjusting speed, for example, you click on either a bunny or a tortoise.

Don't be deceived by the simple interface. With its onion-skinning feature (the ability to see through to the previous drawing, as if through tracing paper) you can create as elaborate cel animations as you like. It's not just for kids! Because it is so easy to use you spend more time animating rather than trying to figure out how to use the software.

The only real drawback to the package is that there is only one file format supported (.LBM), and the animation files are in a proprietary format. If you just want to work self-contained within this package, it's fine, but if you want to export files to other packages, or play animations outside the program, it is a limitation. Also included to study and learn from are sample animations of Scooby Doo, Yogi, Fred Flintstone, and a great dance sequence of George Jetson and his wife Jane dancing in (pre-cyber) space, in mid air, sans gravity. This package is fun, fun, fun!!!

Disney Animation Studio

Disney Animation Studio is also a 2-D cel animation program. It turns the computer into a studio that utilizes the same methods used in traditional animation studios: pencil drawing, onion-skinning, and ink and paint modules. A playback projector tool flips the drawings sequentially to test motion. Examples include a sack that seems alive and other classic characters like Tweedle Dee and Tweedle Dum from *Alice in Wonderland*. This program is easy to use. The manual is full of interesting historical asides on Disney animation, and it offers a lot of practical production tips. It includes a utility that

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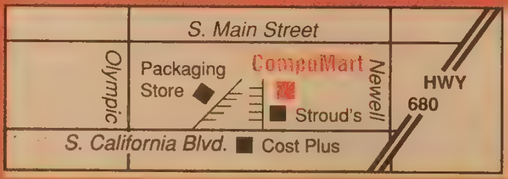

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Budding Young Animators *continued*

enables you to play the animations back outside of the program at the DOS prompt. Runs under DOS, (Windows launchable) or on the Amiga.

My only real gripe is that both Disney Animation Studio and Hanna-Barbera Animation Workshop have annoyware copy protection schemes. You have to look up pictures and click on the correct one each and every time you enter the program. Maybe kids won't mind this as much as I do.

3D Tutor

It is helpful to learn and understand the basics of 2-D cel animation before embarking into the world of creating 3-D computer animation. There are many similar concepts transferrable from 2-D to 3-D, and it is much easier when you have a solid grasp of working in two dimensions before adding a third. When you are ready to enter the third dimension, or just curious about what you might find there, 3D Tutor is the place to start. 3D Tutor, an interactive multimedia CD-ROM, offers an excellent introduction and tour of the basics of 3-D modeling and animation. It is a wonderful multimedia learning experience rich with images and full of practical production overviews and examples. The glossary has pictures and text, many of which can be interacted with in ways that help further illustrate the concepts. There are product demos and test drives. This is a must-have for learning about 3-D animation. 3D Tutor is well organized, has a sophisticated look and feel, is easy to navigate, and is an excellent learning tool.

Animation—A Hybrid Frontier

The animation process has changed and evolved to stay current with the technology of our time. While many of the tools now used are digital, the same set of innate, manual skills and talents are needed today that were needed in the 1920s when animation first became a burgeoning field. It's likely the animation field will forever require a blend and balance of both hand-drawn images combined with the technology of computers. One of the most discussed issues in the animation industry today is the abundance of technologists and the lack of artists.

To become an animator it takes a combination of hard work, imagination, and talent. It can take years to become proficient. Giving a child who shows promise in this area the direction, guidance, and tools they need to develop those skills can give them a head start on their animation career path. These packages are fun and offer a creative, educational alternative to many types of games.■

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RESOURCES:

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Spider 64 1/2MB VLB/PCI	**$117/160**
Spider Black Widow+ 1/2MB PCI/VLB	**$160/221**
Spider Tarantula 2/4 MB	**$255/395**
DIAMOND Stealth 24VLB 1MB	**$132**
DIAMOND Stealth 64 1/2MB DRAM	**$143/193**
DIAMOND Stealth 64 1/2MB VRAM	**$294/468**
DIAMOND ViperSE 2MB VLB/PCI	**$255/294**
ORCHID Celsius 1/2MB	$216/266
ORCHID Kelvin 1/2MB PCI/VLB	**$133/179**
Hercules Dynamite Pro 1/2MBPCI/VLB	**172/225**
Hercules Graphite Pro 1/2MB	$274/418
ATI Graphics Wonder 1MB DRAM PCI/VLB	$115
ATI Ultra Plus 2MB DRAM PCI/VLB	$171
ATI Graphics Exp. 2M B DRAM PCI/VLB	$210
ATI GraphicsProTurbo 2/4MB PCI/VLB	$288/499
Cirrus Logic 5434 PCI 1/2MB	$101/152
S3-864 PCI 1/2MB	$98/148
ET4000 PCI 1/2MB	$104/154

CAD SPECIALITY ADAPTERS

NUMBER NINE - #9GXI/GXE

L10 ISA or VLB Retail/Bulk	$249/236
L11 ISA or VLB Retail/Bulk	$359/339
L12 ISA&VLB Retail/Bulk	$420/406
L14 ISA&VLB Retail/Bulk	$639/589
64 1MB/2MB....PCI or VLB	$175/249
64 PRO 2MB/4MB	$365/549

MATROX

MGA-VLB 2/Plus	$409/459
MGA-VLB 4/200	$845
MGA-IMP 3A&V	$699
MGA-PRO 4.5V/4.5+z buffer	$1095/1379
MB memory upgrade	$209
MGA-PCI 2/2Plus	$365/409
MGA-PCI 4/4-200	$616/768

METHEUS CORPORATION

Premier 928 VL2(1MB)/4(2MB)	$324/559
Premier 928 ISA 1M/2M/4M	$297/422/725
MODULE 1MB Memory	$119
1104 Plus 256 Hz, MultiDisplay	$1295

(We do not have the high end CAD adapters and monitors on display and carry only a few in stock - these are on Just-In-Time inventory basis - please place orders in advance-the prices in parenthesis are on a cash basis only)

14" MONITORS

MONO

Mono 14" amber/white	**$72**
Mono 14" SVGA	**$87**

VGA/SVGA

SVGA 14" 1024 x 768 .39	**$191**
SVGA 14" 1024 x 768 .28 Int	**$210**
SVGA 14" 1024 x 768 .28 NI	**$220**
Black SVGA 1024 x .28 I/NI	$270/282
Kanaka 14" Int/NI w/Hitachi Tube	**$233/256**
CTX 14" 1024 x 768 .28 Int.	**$238**
CTX 14" 1024 x 768 .28 NI	**$244**

CAD MONITORS

Miscellaneous

KFC15".28 1280x1024NI wo/w Digital	**$306/379**
Mitac 15" .28 1280 LowRad,Energy*	**$315**
Orchestra Tuba 17" 1600x .26	**$615**
KFC 17" .26 1280x1024 NI w/o digital	**$629**
KFC 17" .26 1280x w/digital display	**$685**
Mitac 17" .26 1600x NI Energy*	**$689**
Viewsonic 6E 14" .28 NI Green	**$262**
Viewsonic 15E 15" 1024x .28	$365
Viewsonic 15 .28 1280x MPR2	$425
Viewsonic 17" 1600x1280 .27	**$889**
Viewsonic 20/21	**$1525/1659**
MAGNVX20CM64 20", 1280, .31.	($1110) $1150

NANAO

T560i,.26 1280NI,MPR2	($1415)$1490
T660i 20",.30 1280NI MPR2	($1999) $2110
F760iw21".31,1280NI,MPR2	($1919) $2015

NSA-Hitachi

CM 1586 15" .28 1280x	$415
NS 1764 17" .28 NI 1280x	($795)825
CM1797 17" .28.1280NI,MPRII	($975)$1099
CM2095 20" 1280 Anti Glare	($1239) $1295
CM 2198 21" .28 1280NI	($1920)$1989

Hitachi America - ACCUVUE

PS-20,.31dpi 1600x NI	($1555)$1618
PS-21,.28dpi 1600xNI	($2029)$2099
PS-21A,.28dpi 1600xNI	($2149)$2259

Sony

15SF 15" 1280x .25	$445
1730 CPD	$908
GDM17SE 17" 1600NI .25	($955)$999
GDM20SE 20"	($1865)$1939

Nokia

17" 447B Trin.25dpi,1280x	($927)$975
21"445M.26,1280NI	($1955)$2029
21"445X.26,1600NI	($2566)$2615

Sampo

Sampo KDM1767 17" .28	($668)$695
Sampo 1777 17" .28 Microp.	($749)$785
Sampo 2055 20" .31	($1040)$1075
Sampo KDM2077 20" NI 1280 .31	($1460)$1520

NEC

2V 14" NI .28 1024x	$349
3V/4FGE	$485/($635)$659
5FGE/FGP17".28,	($999)$1045/($1125)$1165
6FGP21",.28, 1280NI	($2005)$2095

MAG

MX15F 15"MPR II	($459)/$477
DX16F 16"	**$369**
DX 17F 17" .26 1280x	($645)/$669
MX17F,17".26,1280NI,Mic Org	($758)/$795

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Prices given in bold are usual stock items, prices not in bold are special order items and require a 20% deposit, are not returnable, and take 2-3 days lead time.

CASH COUPONS

HARD DRIVES

CONNER
212/420IDE
$149/188

HARD DRIVES

QUANTUM
540 MB IDE
$ 2 1 1

HARD DRIVES

Western Digital
730MB/1GB
IDE
$293/442

HARD DRIVES

QUANTUM 1.08/2.1 GB
9.5MSEC/5YEARWARNTY
$534/982

NETWORKING

16BIT NE2000 COMP COAX/TP	$29
16 BIT NE2000COMP COMBO	$39
INTEL 10BT FLASH	$99
8 PORT TP HUB W/AUI	$159
16 PORT TP HUB W/AUI	$359

MULTIMEDIA

8BIT SOUND C/KIT	$39/59
MITSUMI 1X CD ROM	$79
MITSUMI 2X INT	$119
TOSHIBA 2X 3401 INT	$239
NEC 510-CDR 3X	$264
Texel/TEAC Quad SCSI CD	$419/265

MICRO MARKETPLACE

MULTI MEDIA

CD-ROMs

IDE TYPE CD-ROMs

CD-ROM-#1-of-the-Month
Mitsumi Kit 350msec, 150 KB/S.........$79

Panasonic 562 DblSpd.320ms, 300kb/sec	**$139**
Mitsumi Dbl-Spd 250ms,300kb/sec	**$126**
SONY CDU 33A 320ms/300kb	$149

Super Multi-Media Complete Kit on Sale!
Mitsumi CD-ROM, 150KB/sec, 350ms
8 bit Sound Blaster Compatible Card (for Win)
Quickshot Warrior joystick
Shielded PC spealers
Deluxe model microphone
Award winning Apogee sound-supported games; all for.................$123!!!

SCSI CD-ROMs

NEC 3X 510CDR Ext 195ms,450KB/sec	**$367**
NEC 3XP Portable 250ms,450KB/sec	$460
NEC 4X Pro 16bit 180ms/600kb sec	$889

CD-ROM-#2-of-the-Month
NEC 3X CDR-510 Multispin,
195ms,450KBS....$281

TOSHIBA 3401B/E 200ms, 300kb/s I/E	**$255/339**
TOSHIBA 4101 B/E 235ms,300Kb/sec Int	$210
Plextor(texel) 3028/5028 240/335 I/E	**$255/339**
Plextor Quad speed bare OEM	**$431**
TEXEL Quad OEM	**$277**
SONY CDU 561, 295ms, 300kb/sec	$286
Future Domain Comp. SCSI CD-ROM Kit	$69

AUDIO CARDS & MPC KITS

Hyena Snd Blster Comp. 8bit Sound Card	**$39**
Hyena w/ Speaker, Joystck, morphn, game	**$50**
Quickshot 16 w/ speakers,game,card etc	**$92**

MEDIA VISION

Pro Audio basic 16bit	$58
Pro Audio Studio 16/Power Pack	$125/59
Fusion Double CD16 Kit Int	$289
Pro 16 Multi-Media System1 SCSI /II	$649/449
Pro Movie Studio	$173

CREATIVE LABS

Sound Blaster Deluxe 8 bit	$59
Sound Blaster 16 BasicVE Retail/OEM	**$95/77**
Sound Blaster MCD/w-ASP	**$135/166**
Soundblater OEM MCD/w-asp	**$90/135**
Sound Blaster SCSI/SCSI2 ASP	**$139/202**
Sound B OEM 16 SCSI/ w/ASP	**$1[illegible]/165**
Discovery 16 kit	$319
Sound Blaster Voice Editor	$55
Wave/Video BlasterSE	$179/285

MISC MULTI-MEDIA PRODUCTS

Encyl 1:Encyl,Animals,World/US Atlas	**$39**
Educational 1 plus Family health	**$68**
Joystick	**$15**
Logitech Fotoman Plus Digital Camera	$565
Logitech SoundMan 16 v1.1/Wave	$79/185
Video Logic Captivator Kit win3.1	$369
Midi Mate/CDPC XL	$49/1059

PLOTTERS, DIGITIZERS, SCANNERS & PRINTERS

PLOTTERS

HOUSTON INSTRUMENTS

V50 INKJET A-C,2MB BUFFER	$1298
HiPlot 7100 A-D 8 pen,LCD display	$2575
HiPlot 7200 A-E 8 pen,LCD display	$3395
DMP-162R A-E, 8 Pen, Roll Feed	$3958

DIGITIZERS

SUMMAGRAPHICS

III 12x12 w/16btn or 4bt & Pen	$312
III 12x18 w/16btn or 4bt & Pen	$539

KURTA

XLP 12x12 w/4btn & Pen	$225
XLP 12x18 w/16btn or 4btn & Pen	$429
XGT 12x12 w/4Btn	$322
XLC 36x48 w/16btn or 4btn&pen	$1520

CALCOMP

CALCOMP 12 X 12/12 x 18	$299/618
CALCOMP 18 X 24/24x36	$1275/1399

SCANNERS

LOGITECH (HAND-HELD)

SCANMAN-color Phototouch/OmniPg	$347/398
SCANMAN 256GS wo/ w OmniPage	$153/195
SCANMAN 32GS w/ OmniPage	$113
Scanman Power Page Slide	$404

MICROTEK

Scanmaker II/IIXE 1200/600dpi w/OCR	$521/899
Scanmaker IIHR 600dpi	$1055
Scanmaker IIG/IISP color cap 600dpi	$392/769

MUSTEK (Hand-held)

ScanMagic256, 400dpiw/perceive	$109
ScanMagic Color,400dpi,256 grays w/perc	$219
GrayArtist,800dpi,256 grays w/perc	$134
Colorartist Pro,800dpi,256&colr w/per	$249

MUSTEK (Flatbed)

Paragon 600(dpi)24 bitclr,Photoshop	$549
Paragon1200(dpi)24 bitclr,Photoshop	$839

UMAX Technologies

UC 630 PC,1200dpi max,24bit /256gray	$675
UC840,1600dpi max,16.8 million clrs	$889
UC1260,2400dpi max,16.8 million clrs	$1185
UC1200SE,2400dpi max.,30 bitclrs	$2550

Hewlett Packard

HP IICX Color scanner	$891

EPSON

ActionScanning 300/ES 1200C	$815/1295

Miscellaneous

Info 3gs 300dpi sheet fed	$375
Info SF-6C 600dpi sheet fed	$450
Relysis 9600 800dpi color flatbed	$2995
Tamarack 6000/8000C	$729/853

Fujitsu (Flatbed)

M3096E/G 11.7x17"400dpi 20ppm	**$4222/4894**

PRINTERS

Miscellaneous

Star Micrnix NX1001 9 Pin.120/220V	$134/144
Star Micronix 220v quantity of 100 only	$135
IGOR 132 9Pin Wide **220V** (Cyri..).in stock..........with any purchase	$110

EPSON

Action 2250 9 pin,50sheet,240cps	$115
LQ 2550	$903
LQ570+ 24 pin wide, 269 cps, 11 fonts	$249
LQ 1070+ 24 pin Wide,252cps,11fts	$369
LQ 1170 24Pin ,2 resident fonts	$609
Stylus 300 Inkjet 360dpi,150cps	$221
Stylus 800 Inkjet 360dpi,150cps,100sht	$283
ActionLaser 1500 300dpi,6ppm,1mb	$655
Actionlaser 1600 600dpi/Stylus color	$947/565
DFX-5000 9pin,wide, high spd. 533cps	$1485
DFX-8000 9pin, wide high spd1066cps	$2345

CANON

BJ200e/230,360dpi,49k,7fnts,4ppm	$255/395
BJ10SX,110cps,360dpi,**Portable**	$241
BJC 600 Color,240cps,360dpi,100shtfd	$499
BJC 820 Color,240cps,4ppm,1MB	$1467

OKIDATA

OL 380/321 dotmatrix,24Pin,23K	$217/420
OL400e/410elaser 4ppm, 300dpi	$489/635
OL810, 8ppm, 300dpi	$875
OL830 Plus/850, 8ppm w/ 2MB ps	$1055/1165
OKI ML520/521 9 pin 64K	$359/475
OKI ML590/591 24 pin..auto form	$417/561

PANASONIC

KX-P2124, N-Carr, 320cps, 360dpi, 12fnts	$318
KX-P2624/2023	$381/197
KX-P1624, W-Carr, 192cps, 360dpi, 14fnts	$383
KX-P 1150/2023	$149/199
KX-P4410,5ppm,300dpi,28fnts,512k	$529
KX-P4440/4430	$999/655

CITIZEN

GSX 145 24Pin wide,160cps,360dpi	$349
GSX200 9pin,Narr/wide	$168/289
GSX220 24pin/CTZ projectII 3ppm	$179/279
GSX230 24 pin.8 fonts, 270cps	$221
(color option for Citizen 80 col printers	*$45)*
GSX240 24 pin 300cps, 13 fonts	$281
Notebooks CTZPN48/CTZNP-IBM	$284/326

HEWLETT PACKARD

Deskjet 540 300dpi,120cps,16k	$289
Deskjet 560C Color,3ppm,300dpi,80k	$455
Deskjet 1200C/ps Color2MB	$1357/1837
HP 4+/4P/4SI/4L/4V	$1351/907/2835/619/1825
4M+/4ML/4MV/4 SiMX	$1819/955/2645/3925

NEC

Pinwriter3300 24pin wide,360dpi,80K	$326
Pinwriter6200 24pin narrow,360dpi,80k	$399
Pinwriter9300 24pin wide.360dpi 333draft	$839
Silentwriter superscript610,6ppm,256k	$471
Silentwriter1097 600dpi,7mb	$1365

FUJITSU

10/10W Laser,10ppm,1/2mb.14/35fts	$830/942

All printers: Cash basis only and come with the Original Manufacturer's warranty. Please call for lead time. No returns on any printer purchase with this pricing.

MEMORIES, MATH-COs & CPUs

MEMORIES for IBMs

SIMMs

256 x 9 (3 chip)70NS	**$11.75**
1M x 9 (3 chip)-70NS BP	**$38.75**
1M x 9 (9 chip)-70NS Major brand	**$39.75**
4M x 9 (3 chip)-70NS BP	**$122**
4M x 9 (9 chip)-70NS	**$142**
4Mx8-70 maj	**$128**
1M x 9 (3 chip)-60 Major brand	$41
4M x 9 (9 chip)-60NS	$159

ESIMMs(72 Pin)

256x36-70NS	$55
512x36-70NS	$95
1x36-70NS	**$169**
2x36-70NS	**$325**
4x36-70NS	**$528**
8x36/16x36-70	**$1117/2235**
1x36-60NS	$158
2x36-60NS	$329
4x36-60NS	$635
1x32-70 NS	**$148**
2x32-70NS	**$295**
4x32-70NS	**$469**

DRAMs

1x1-70/80NS	$5.50/5.25
256x1-70/80NS	$1.75/1.60
256x4-70/60NS	$5.75/5.50

LASER EXT. MEMORIES

HEWLETT-PACKARD

HP IIP, IIP+,III,IIID,IIIP 1/2/3/4MB	$75/114/155195
HP II, IID 2/4MB	$124/199
HP IIISi 1/4MB	$76/204
HP IV 4/8MB	$165/365
Deskjet 500, 500C, 550C.....256K	$88

PANASONIC

KXP 4410/20/30 ......1/2/3/4MB	$98/148/175/215
KXP 4450 1MB	$137
KXP 4455 ....2MB	$164

OKIDATA

OKI 400 ....1/2MB	$98/
1 1	9
OKI 800/820 ....2/4MB	$123/193
OKI 810 ....1/2MB	$111/189

CPUs & CPU FANS

INTEL

386 DX33	$40
486 SX25/33	**$64/86**
486 DX 33	**$123**
486 DX 50	**$247**
486 DX2 50	**$239**
486 DX2 66	**$223**
486 DX-4 100	$505
Pentium 60MHz	**$395**
Pentium 66MHz	**$535**
Pentium 90MHz	**$609**

AMD

386 DX 33/40	$47/48
486 DX-33	**$144**
486 DX 40	**$153**
486 DX2 50	**$199**
486 DX2 66	**$205**

CYRIX/TI

486 DLC 33/40	$62/68
486 DX 33/40	**$108/114**
486 DX2-50/DX50	**$132/242**
486 DX2-66	**$189**

CPU Fans

486 heat sink and fan	**$7.95**
Pentium 60,66/90	**$12/15**

MATH-COPROCESSORS

INTEL

80387 SX 16/20/25	$45/64/75
80387 DX 16/20/25/33	$35/40/45/80

Overdrives - call for latest prices

IIT

3C87SX-16/20/25	$39
3C87SX-33	$39
3C87DX-25/33/40	$39

CYRIX

83S87SX 25	$39
83S87SX 33	$39
83D87-33	$41
83D87-40	$41

WEITEK

4167-25	$265
4167-33	$425

Special Terms and Conditions for this Section: CPU and Memory prices change on a daily basis; please call for the latest prices. These products when bought without systems come with a minimum 15 day warranty - please inquire. We do not stock many of the above products - please call for availability.

SOFTWARES

For Networking, Communications, Tape Storage Drivers, Networking Drivers, Multi-Media and Speciality Softwares also look in the corresponding sections.

UTILITIES

Norton Utilities V 7.0/Anti-Virus v2.1	$116/89
QEMM 386 V7.0	$69
AfterDark V2.0 WIN	$29
PC Tools V 8.0A	$57
Auto-Doubler/Disk-Doubler	$68/61
LapLink V5.0 FOR NETWARE	$74
MickyMouse/StarTrek Screen Saver	$39

DESKTOP PUBLISHING & GRAPHICS

Corel Draw V4.0/UPGRADE	$383/218
Pagemaker/WIN V5.0	$554
Harvard Graphics For Windows	$248
Norton Desktop WIN V2.2	$115
Micrographx Graphics Works	$158

DATABASES

Accesss for Windows	$145
CA-Clipper V5.2	$512
DBASE IV V2.0	$513
FoxPro ForWin/DOS 2.5 Upgrade	$300/305
FoxPro LAN	$call
Paradox V4.0/WIN	$524/145
Q & A 4.0	$243
Superbase 2.0 WIN	$345
LOTUS SMARTSUITE	$448
Gupta SQL router/SQL server	$166

ACCOUNTING/BUSINESS

CA-Accpac BPI Integrated	$148
CA-Acc. Simply Accounting DOS	$79
DAC Easy Accounting/Payroll 4.3	$94
Works for WIN 2.0	$129
MS Project 3.0 for WIN	$425
MS Office 4.2 (Word,Excel,Pwrpoint,Mail)	$475
MS Office Pro v4.3	$595
MS Office 4.2 OEM standard	$285
MS Office Pro v4.3 OEM package	$349

SPREADSHEETS

LOTUS WORK V3.0	$99
MS Excel V5.0	$299
MS Works for WIN	$123
Quattro Pro V 5.0 WIN/DOS	$54

WORD PROCESSING AND GRAPHICS

AMI Pro 3.1	$240
Professional Write V 2.2	$159
MS Word 6.0 for DOS/WIN	$305/299
Word Perfect 6.0 for DOS/WIN	$319
WordStar 7.0	$264

COMMUNICATIONS

Procomm Plus 2.01/WIN	$70 /97
WinFax Pro V 3.0 for WIN	$99
Norton PC Anywhere 4.5 Host/Rem	$65/86
CrossTalk for WIN	$129

PROGRAMMING LANGUAGES & OPERATING SYSTEMS

M.S. DOS OEM 6.22	**$45**
M.S.OEM Windows 3.1 for PC system	**$49**
M.S OEMWIN FOR WORKGROUPS 3.11	**$56**
M.S. Windows V 3.11 Original	**$92**
Windows NT 3.1 /UPGRADE	$314/278
Novell DOS 7	$59

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Prices given in bold are usual stock items, prices not in bold are special order items and require a 20% deposit, are not returnable, and take 2-3 days lead time.

CASH COUPONS

MONITORS	MONITORS	COMMUNICATIONS	COMMUNICATIONS	MOTHERBOARDS	MOTHERBOARDS	ADAPTERS	ADAPTERS
K F C 17" .26 1280 NI DIGITAL $649	K F C 15" .28 1280 $286	2400MODEM..$24 96/24 F/M...........$35 14.4 INT F/M.....$49	US ROBOTICS 14.4 F/M Int/Ext 5 YEAR/16550 UART $105/126 (limited time, one per customer)	486 DX VLB W/256K DX-33 CYRIX...$189 66 AMD/INTEL.$289/304 100DX-4 INTEL.....$599	PENTIUM CapricornSS series 60 Mhz PCI........$586 90 Mhz PCI......$830	CONTROLLERS IO W/16550.......$24 SCSI w/DRIVERS.....$49 ADAPTEC VLB SCSI..$229 ADAPTEC PCI SCSI...$189	VLB / PCI CL 5428 1MB...........$79 HERCULES DYNA 1MB....$165 DIAMOND VIPER 2MB....$239 ET4000 PCI 1MB...........$120 ATI PCI 2MB.................$229

COMMUNICATIONS

FAX-MODEMs

PONY 902Z 96/24 Fax (Send)/Mod Int	**$27**
PONY 992Z 96/24 Fax/Modem	**$39**
PONY 992NZ 96/24 F/M, v. 42 bis Enh	**$55**
PONY 1414IZ 14.4 F/M,.32/.42 w/Bitfax Int.	**$52**
PONY 14.4 F/M .32/.42 Int w/Voice prm	$100
PONY 28.8 F/M Int(14.4/28.8)	$102
PONY 992PZ Pocket 96/24 F/M,.32/.42	$63
PONY 1414PZ Pocket 144 F/M, v.32, v.42	$176
PONY 992MG PCMCIA 96/24 F/M v. 42	$132
PONY 1414MG PCMCIA144/144 F/M v.42	$244

AT&T Paradyne

DataPort 14.4 Fax V.32bis Int/Ext	$125/145
Keep in Touch PCMCIA 14.4 S/R Internal	$259

US ROBOTICS

14,4 Sport Mod/Fax V.32b V.42b I/E	**$111/135**
28.8 Mod/Fax I/E vF.C.	$199/212
28.8 Sport M/F v.34 Int/Ext	$212/233
14,4 Mac&FAX Ext. Mod/fax	$154
19.2 HST Courier Exyt modem	$389
Modem Sharing Single/Dual Kit	$548/964
World Port Pocket 14.4 Mod/fax Int	$229
PCMCIA Ext type II	$314

SUPRA

14.4 Budget Int/Ext. F/M	$85/119
14.4 Class I Int/Ext F/M	$113/139
14.4 Class II Int/Ext F/M	$154/183
28.8 Int/Ext F/M	$219/249

HAYES

Accura 14.4 F/M .32/.42 Int/Ext	$149/159
Optima 14.4 F/M .42 Int/Ext	$359/372
Optima F/M PCMCIA	$285
Optima 14.4 F/M Pocket	$335
Optima 28.8P F/M	$449

ZYXEL

U-1496B 16.8/14,4 VoiceFax SW,S/R Int	$318
U-1496B+19.2/14,4 Voice Fax SW,S/R Int	$429
U-1496E 16.8/14.4 VFax SW,S/R LED Ext	$298
U-1496E+ 19.2/14.4VFaxSW,S/R LED Ext	$419
U-1496+ 19.2/14.4VFaxSW,S/R LCD Ext	$625
U-1496+19.2/14.4 S/R LCD MAC Ext	$639
U-1496E+ 19.2/14.4 S/R LED MAC Ext	$429

PRACTICAL PERIPHERALS

14.4 Fax/Modem S/R Internal	$143
14.4 Fax/Modem S/R External	$154

Miscellaneous

XIROM 14.4 PCMCIA	$
Megahertz 14.4 PCMCIA Type3	$298
Motorola 14.4 Int/Ext	$call

NETWORKING PRODUCTS & SERVICES

ETHERNET Adapters

NE 2000 Plus Comp 16bit Coax/10BT	**$29/29**
NE2000 Plus Comp Combo soft&hard config	**$36**
NE 2000 COMP COMBO AUI+BNC+RJ45	**$51**
D-Link 16 Bit,SoftConfig. 10BT 1/6 Pack	$70/377
Intel EtherExpress 16/5pk/20pk	$106/480/1752
Intel EtherExpr 16 MCA C/16 MCA TP	$177/177
Intel EtherExpress 32 EISA/Flash 32C	$427/232
Intel EtherExpFlas TP/C 5/20pk	$141/632/2368
SMC Ethcard 16 Elite Ult Cx/6 Pk	$109/581
SMCEthcardEliteUltraCOBO 1/6	$125/625
SMCEthcard+Elite16Cx/TP1/6	$121/625
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SMC Token Ring Adapter 16/4	$261
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XIRCOM 16/4 MBNS Tokenring w/Type 1Bnc.	$525
Xircom 16/4 Tokenring w/Type 1BNC	$455
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3COM589TP Etherlink III	$192
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Castelle Lanpress 1P+1S/2P+2S Token	$521/592

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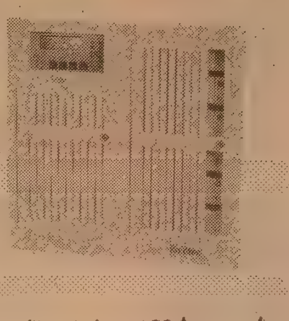

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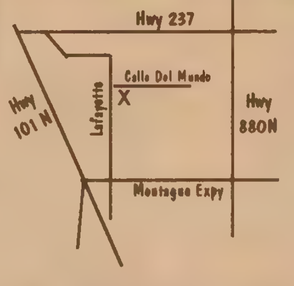

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T3100	2 MB	135
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PS/2 30-286	2 MB	129
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40SX, 35SX,35SL	2/4 MB	99/179
70A21, A61, 121	2 MB	135
80-11, 121, 311	4 MB	245
95,90,P75, PS/1 Pro	2/4/8 MB	135/129/335
16 Bit Exp Bd For 50, 50Z, 60, 65SX	0K	179
32 Bit Exp Board for all 70 & 80 models	0K	189
RISC 6000	16/32/64 MB	745/1490/2890
Other Models		CALL

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Bravo 486LC	4/8/16 MB	189/325/595
Cupid-32 Board	0K	239
Premium 386C	4 MB	189
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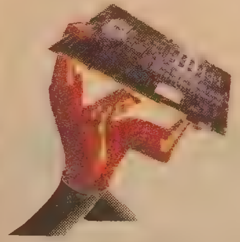

MSRP: $179 w/1MB
$225 w/2MB
Available after ComDex Nov. '94

The First Integrated Video and Graphics Accelerator

Graphics Accelerator

The SPiDER Pro-Vision 64 includes a dedicated BitBlt engine to maximize the performance GUI and CAD applications. In addition to hardware BitBlt the Pro-Vision 64 also possesses many advanced features like: Hardware cursor, Color DitherFill, Linear memory access, line draw, clipping, and color expansion.

Motion Video Accelerator

An integrated motion video accelerator enables motion softwares to achieve 30fps full-screen playback at any color depth. The SPiDER Pro-Vision 64 accomplished this task by offloading the CPU-intensive tasks of scaling and color space conversion to its video accelerator. The end result is a smooth motion of video. The Pro-Vision supports many common software codec (compress/decompress).

- Graphics Acclerator up to 1280 X 1024 X 256 colors at 75Hz non-interlaced.
- Full-montion, full-screen video playback with smooth 30fps in 16 million colors.
- Accelerates all multimedia CDs games, video, and MPC titles.
- VESA DPMS power management to reduce power consumption.
- Menu driven installations and utilities.
- Resolution and refresh rate switching on-the-fly.
- An all in one card to reduce incompatiblity.

Resolution	Max. Colors	Minimum Memory	Selectable Ref. Rate (N-I)
640 X 480	16M	1MB	60, 70, 75
800 X 600	16M	1MB	60, 70, 75
1152 X 864	256	1MB	60, 70, 75
1024 X 768	256	1MB	60, 70, 75
1152 X 864	64K	2MB	60, 70, 75
1024 X 768	64K	2MB	60, 70, 75
1280 X 1024	256	2MB	60, 70, 75

Features:
30fps full-screen and true color, at any resolution on-the-fly scaling color space conversion

Bus Available: PCI
Display Memory: 1MB DRAM exp 2MB
Video Connector: DB-15

Software Drivers:
MS-Video for Windows w/DCI
Intel Indeo
Windows 3.X
WindowsNT
"Chicago" Windows 95 (Ready)
OS/2
AutoDesk ADI
WordPerfect 5.1, 6.0

Specification:
Video and Graphics Accelerator: Alliance Promotion 3210

Recommended System:
486DX or better / 1 PCI slot
Windows 3.1 or above CD-ROM drive. SoundBlaster, Media Vision, or compatible sound card.

Why MutiMedia User Interface? Entertainment / Education / Training / Communication

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- 128K External Cache Exp. to 256K
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486DX2-50MHz

128K Cache

w/ Intel CPU	$400
w/ Cyrix CPU.	$375

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- 1MB Expandable to 32MB on Board
- 8K Internal Cache
- 128K External Cache Exp. to 256K
- Shadow RAM
- 1.2 or 1.44MB Floppy Drive
- 1:1 Interleave HD/FD Controller
- Tower or Desktop case w/power supply
- 101 Enhanced Keyboard

486DX-33MHz

128K Cache

w/ Intel CPU	$350
w/ Cyrix CPU.	$345

- VESA Local Bus Motherboard
- 1MB Expandable to 32MB on Board
- 8K Internal Cache
- 128K External Cache Exp. to 256K
- Shadow RAM
- 1.2 or 1.44MB Floppy Drive
- 1:1 Interleave HD/FD Controller
- Tower or Desktop case w/power supply
- 101 Enhanced Keyboard

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486SX-33MHz

128K Cache

Intel 80486SX-33MHz CPU

- VESA Local Bus Motherboard
- 1MB Expandable to 32MB on Board
- 8K Internal Cache
- Shadow RAM
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- 1:1 Interleave HD/FD Controller
- Tower or Desktop case w/power supply
- 101 Enhanced Keyboard

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AIR VESA Local Bus Motherboard.	Add $40
VESA/EISA Motherboard	Add $120
PCI Motherboard	Add $120
VESA IDE CARD	Add $10
VESA SVGA Card w/1MB	Add $65
SpeedStar 24X	Add $60
Orchid Kelvin 64 VESA/PCI w/1MB/2MB RAM	Add $130/175

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14" Mono Monitor & Card.	$85
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- 101 Keyboard

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- 256K Cache
- 3 VESA Local Bus & 3 PCI Slots
- 1.2 or 1.44 MB Floppy Drive
- 1:1 Interleave HD/FD Controller
- Tower or Desktop Case w/Power Supply
- 101 Keyboard

586 Pentium 66MHz $885

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TEAC 4XI AT	$365
Toshiba 4XI SCSI	$370

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- Tower or Desktop Case w/power supply
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486DX-40MHz w/ 128K Cache

w/ AMD 486-40MHz CPU . . $370

w/ Cyrix CPU, Math Chip . . $290

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- 1:1 Interleave HD/FD Controller
- Tower or Desktop Case
- 101 Enhanced Keyboard

$245 386-40MHz w/ 128K Cache

- 1MB expandable to 32MB on Board
- 128K Static Cache Memory
- Shadow RAM
- 1.2 or 1.44MB Floppy Drive
- 1:1 Interleave HD/FD Controller
- Socket for 80387
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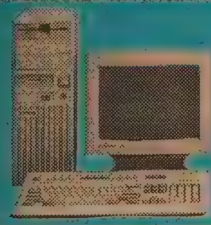
- 101 Enhanced Keyboard

$220 386SX-40MHz

- 1MB expandable to 16MB on Board
- Shadow RAM
- 1.2 or 1.44MB Floppy Drive
- 1:1 Interleave HD/FD Controller
- Tower or Desktop Case w/power supply
- 101 Enhanced Keyboard



• 212MB	$155	• 420MB	$195
• 250MB	$155	• 540MB	$225
• 340MB	$170	• 1GB	$460

Keyboards

Mitsumi 101 Key	$29
Keytronic 101 Key	35
Maxiswitch 101 Key	35

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TEAC/Epson 1.2MB	$55
TEAC/Epson 1.44MB 3.5"	45

Modems

2400 Baud (Ext)	$50
Fax Modem (9600 Fax, 2400 Modem)	35
14,400 Modem, 14,400 Fax	65
28,800 Fax/Modem	135

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Non-Interlaced SVGA Monitor	220
Impression 5 15" Monitor	300
Viewsonic 15EX	375
Viewsonic 15	405
Viewsonic 17G	750
Viewsonic 17	860
Mag 17" OEM 1280x1024 .28	620
NEC 3V	475
Sony 15SF	435
Sony 17SE	925

Interface Cards

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OAK SVGA (1024x768 512K)	40
Trident SVGA w/ 1MB RAM	60
Orchid Kelvin 64 PCI/VLB 1M/2M	135/180
Diamond SpeedStar 24X	85
Diamond Stealth 24 VLB	135
Diamond Stealth 64 PCI/VLB 2MB/4MB VRAM	290/440
Diamond Viper w/2MB VESA/PCI	280
AT M I/O (2S, 1P, 1G)	15
AT M I/O w/16550 UART	30
IDE Card w/cable	15
Promise IDE VESA Cache Controller	110
Future Domain SCSI Card	75
Adaptec 1522	90
Adaptec SCSI 1542C	175
Adaptec 2742 EISA SCSI	290
Adaptec 2842 VESA SCSI	240
Adaptec 2942 PCI SCSI	220

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212MB	$165
250MB	165
340MB	180
420MB	200
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1 GB	470
270MB SCSI	195
540MB SCSI	285
1 GB SCSI II 8.5 MB	560

Motherboards

386SX-33MHz	$75
386-40MHz 128K Cache	105
486SX-25MHz w/Intel CPU 128K Cache	150
486SX-33MHz w/Intel CPU 128K Cache	170
486DX-33MHz w/Intel CPU 128K Cache	215
486DX2-50 w/Intel CPU 128K Cache	260
486DX2-66MHz w/Intel CPU 128K Cache	300
IBM 486SLC2-66MHz VESA	180
Pentium 90MHz w/CPU	870
Pentium 60MHz w/CPU	640

Miscellaneous

387SX	$25
387-25/33/40	35
230W Power Supply	48
Logitech Mouse Man	50
Logi Trackman	75
Microsoft Serial/Bus	30/55
DFI Mouse (3 Button, Microsoft Comp.)	15
Mini Vertical Case w/PS	55
Mid Vertical Case w/PS	75
Full Vertical Case w/PS	95
Conner 250MB w/cartridge tape	135
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Colorado Tracker 250MB	310
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WD SMC Elite Ethernet 16 Bit	110
3COM 3C509	120
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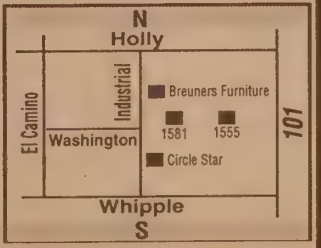

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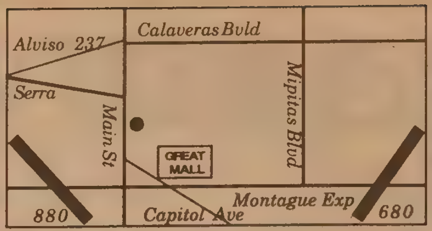

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Intel Pentium P5-60/256K PCI	$647
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Genoa486DX2-66/256KPCI(Intel)	$360
Genoa486DX2-66/256KPCI(AMD)	$354
Genoa486DX2-66/256KVLB(Intel)	$296
Genoa486DX2-66/256KVLB(AMD)	$290
Genoa486DX-40/256KVLB(AMD)	$250
IBM486BL-75/256KVLB w/Mathco	$190
IBM486SLC2-66/64KVLB w/Mathco	$145
Pentium P5-66/256KVLB+PCI	$674
Pentium P5-60/256KVLB+PCI	$569
486DX4-100/256KPCI	$600
486-DX4-100/256KVLB	$554
486DX2-66/256K PCI (Intel)	$336
486DX2-66/256K VLB (Intel)	$277
486DX-33/256K VLB (Intel)	$190
[illegible]	[illegible]
486DX2-66/256KPCI(AMD)	$330
486DX2-66/256KVLB(AMD)	$259
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486DX2-66/256K VLB(CYRIX)	$250
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486DX2-66(Intel)	$980
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486DX2-66(Cyrix)	$950
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486DX-33 (Intel)	$890

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- *Microsoft Compatible Mouse+ Mouse Pad

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Genoa 486DX2-66/256K VLB (AMD)	$938
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486 DX2-66/256K PCI (Intel)	$975
486 DX2-66/256K VLB (Intel)	$923
486 DX-33/256K VLB (Intel)	$829
486 SX-25C VLB (Intel)	$752
486 DX2-66/256K PCI (AMD)	$969
486DX2-66/256K VLB (AMD)	$906
486DX-40/256K VLB (AMD)	$870
486 DX2-66/256K VLB (CYRIX)	$906
486 DX-40/256K VLB (CYRIX)	[illegible]

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-420 MB Hard Drive	30
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CD ROM Quadruple Speed	300
CD ROM 3401 (200ms) Internal/External	249/350
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Fax Modem (28,800 Baud)	115
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❖ US Robotics Fax/Modem 28,800 v.34	230
❖ Microsoft mouse serial/bus	26/53
❖ Logitech Mouseman serial/Bus (4000dpi)	30/51
❖COLORADO	
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❖ Medium Tower case w/230W PS	61
❖ Full Tower case w/250W PS	80
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❖ TEAC 1.2FD/1.44FD	42/38

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Focus 8000/7000	37/49
Omnikey 101	65

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F560iw17"/T560i17"	1150/1360
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❖NEC	
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5FGE	940
❖MAG	
MX15F/MX17F	420/775
DX15F/DX17F (1280x1024,0.26)	345/615
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GDM20SE/15SF	1,785/422
❖HITACHI	
CM-2095 20"	1,165
CM-2198 21"	1,835
CM-1586MV	389
ACUVUE GX20/GX21	1470/1790
❖VIEWSONIC	
6 E	254
15/15G	380/365
17/17G/17E	820/725/685
20/21	1,390/1,599
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Interlaced (1024x768) Monitor 0.28	205
Non-interlaced Monitor 0.28	215
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GREEN 15"	310

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210mb/12ms (IDE)	$150
420mb/14ms (IDE)	184
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❖MAXTOR	
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345mb/14ms (IDE)	167
540mb/14ms (IDE)	210
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❖QUANTUM	
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Stealth 64 VLB/PCI w/1MB/2MB DRAM	135/185
Stealth 64 VLB/PCI w/2MB/4MB	280/410
❖SPIDER	
Tarantula PCI w/2MB/4MB	245/360
32VESA Local Bus w/1MB/2MB	83/133
32VLB Plus w/1MB/2MB	92/140
BlackWidow Engine ISA 1M/2M	125/175
BlackWidow+ PCI/VLB w/1MB/2MB	150/210
256 Cache VLB w/1MB/2MB	100/150
64 VLB/PCI w1MB/2MB/4MB	112/167/277
Pro VLB SVGA VIDEO w/IDE/I/O	94
❖ORCHID	
Kelvin VLB/PCI w/1MB/2MB DRAM	138/177
Kelvin Easy VLB/PCI w/ 1MB	105
Fahrenheit 64 PRO VLB/PCI 2M/4M VRAM	275/405
❖ATI	
ATI Ultra Pro VLB/PCI/ISA w/2MB	220
ATI Mach64 Pro Turbo VLB/PCI w/2MB/4MB VRAM	259/450

CONTROLLER CARDS

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I/O with 2s/1p/1g	12
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IDE VESA Local Bus w/16550	40
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Promise 4020VL	103
Adaptec SCSI 1522	72
Adaptec SCSI 1542CF/1542CF w/Kit	168/239
Adaptec EISA SCSI 2742A/2742A w/Kit	225/350
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Adaptec SCSI 2842A-VL OEM	210
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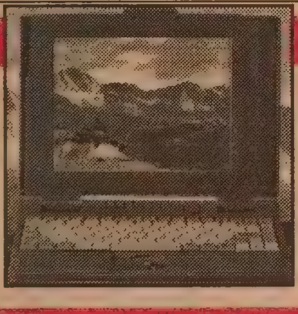

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- Microsoft Compatible Mouse w/ Pad
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- 1.44MB Floppy Drive
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- Microsoft Compatible Mouse w/Pad
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- 1.44MB Floppy Drive
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- Microsoft Mouse w/ Pad
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Diamond Stealth 24 VLB,ISA w/1MB DRAM	$139
Diamond Stealth 32 VLB,PCI 1MB/2MB DRAM	$149/199
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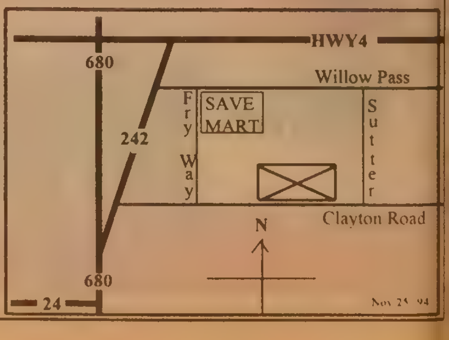

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- Mini-Tower/Desk Top Case w/230W PS
- 101 Enhanced Spill Proof Keyboard
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- 1 Year Parts, 3 Years Labor Warranty

7 Day Risk Free Period

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- VESA Local Bus Accelerated Video Graphics w/ 1 MB
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- 101 Enhanced Spill Proof Keyboard
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- IBM Processor with Math Co-Processor
- 16KB Internal, 256/64KB External Cache
- Motherboard By IBM Made In USA
- 4 MB 70ns High Speed RAM (64MB Max)
- 250 MB Fast IDE Hard Drive
- 1.44 MB Floppy Disk Drive
- VESA Local Bus Accelerated Video Graphics w/ 1 MB
- VESA Local Bus 32 Bit IDE Interface
- Built-In High Speed NS16C550 Serial Ports (BL75)
- Built-In Bi-Directional Parallel Port(BL75)
- 14" .28dp Hi-Resolution Color Monitor
- Mini Tower/Desk Top Case w/200W PS
- 101 Enhanced Spill Proof Keyboard
- Microsoft Compatible Mouse w/Pad
- 1 Year Parts, 3 Years Labor Warranty

7 Day Risk Free Period

486SLC2-66 VLB	$849
486BL-75 VLB	$899

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- Upgradable To Pentium OverDrive
- 8KB Internal, 128KB External Cache
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- 250 MB Fast IDE Hard Drive
- 1.44 MB Floppy Disk Drive
- 512KB of Video RAM
- 9600/2400 S/R Fax Modem w/Software
- 2 Hard/2 Floppy Drive IDE Controller
- Built-In 2 Serial, 1 Parallel, 1 Game Port
- 14" .39dp Hi-Resolution Color Monitor
- Mini Tower/Desk Top Case w/200W PS
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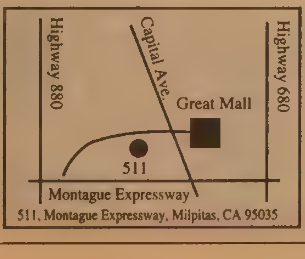

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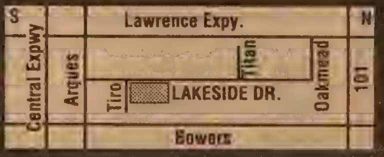

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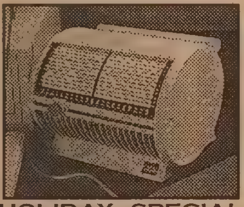

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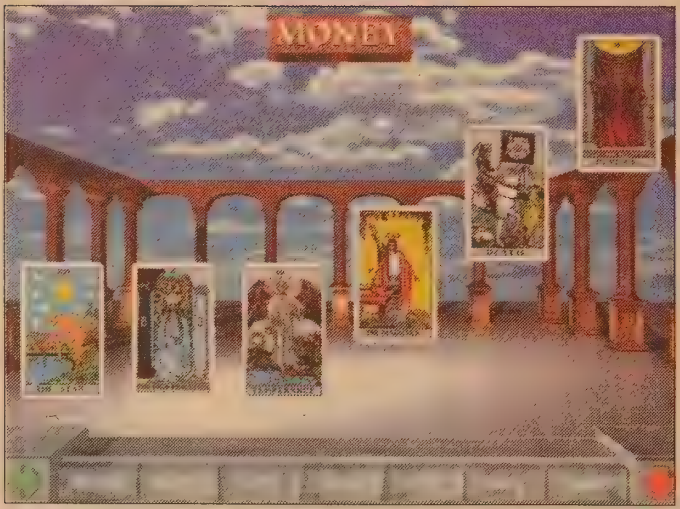

Finding the right multimedia gift could be a tricky task. There's a lot of junk out there, a lot of so-so stuff that doesn't really engage but might appeal to specific interests, and only a little that's really successful as multimedia. There was supposed to be a flood of titles before Christmas, but as of late October, very few of them have actually appeared.

What follows are the better titles that I have seen relatively recently. Not all are brand new, but they are all good examples of what multimedia can be.

BAR-MIN-SHI CONSUMER PRODUCT

It's pretty ironic to recommend this CD-ROM for the ultimate consumer orgy, since it's a malcontent's pointed and withering look at advertising and its role in consumer culture—but that's exactly what I'm going to do, and highly too.

Bill Barminski comes from the Texas punk and art scene; in a QuickTime segment he speaks movingly of a Damned album his brother brought back from London because it was so different and interesting. Now he's made an equivalent thing with this CD-ROM, which is essentially a collection of his paintings and comics from over the years, along with his strange little songs, QuickTime interviews with him, and an utterly hilarious game.

To enjoy all this, you'll have to be able to deal with statements like "They've brainwashed people to think democracy equates with capitalism; capitalism should be something to serve democracy, not the other way around." But if that's okay, this CD-ROM is one of the best examples of how this new medium can be used to express a personal point of view.

It also looks great and made me laugh more than any other CD-ROM that I recall. If no one else gives you this, get it for yourself. (Consumer Productions, 3700 Inglewood Blvd., #8, Los Angeles, CA 90066; 310/391-5897: $49.95, Mac and Windows)

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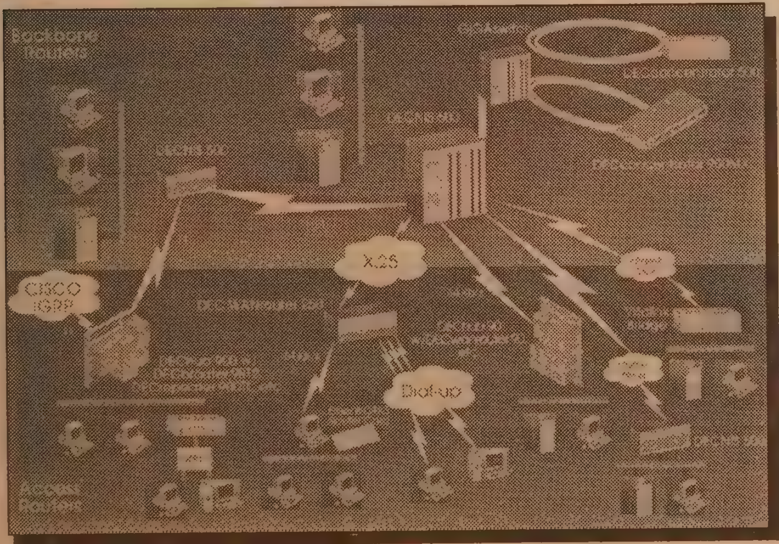

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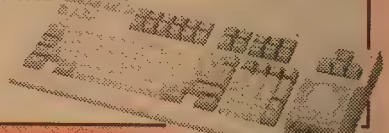

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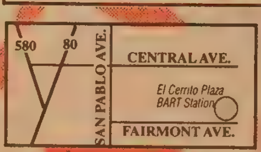

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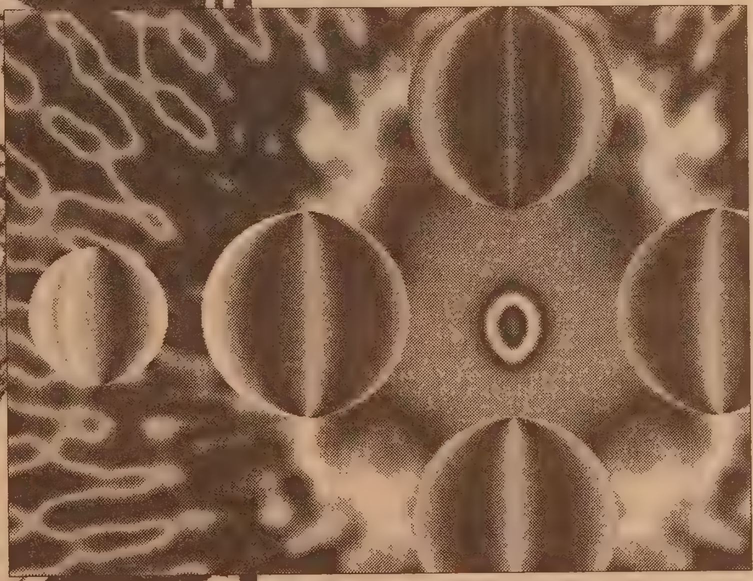

4 PAWS OF CRAB—A NARRATIVE THAI COOKBOOK

Here's another utterly idiosyncratic CD-ROM, completely different in style and with a taste of Thai rather than bile.

There are four parts to this title: a collection of Thai recipes, a guide to the ingredients of those recipes, personal recollections of time spent in Thailand by an American woman and vice versa by a Thai man, and a historical overview of Thai and American history.

It sounds somewhat disjointed, and, in a way, it is. It's also quite charming with philosophical overtones and astute cultural commentary. Years ago keeping recipes on your computer was a bit of joke, but while 4 Paws of Crab can raise a gentle laugh with a couple of its recommendations, it does so deliberately and with a subtle sense of humor.

Of course, you can print out the recipes.

Some of the QuickTime is a bit dodgy, but that's hardly the central element of the title, and the short sound loops can be annoying.

Ultimately this is an enjoyable and useful look at two cultures, managing the mixed subjects in an elegant way that traditional media would find hard to do. (Live Oak Multimedia, Inc., 5901 Christie Ave., Suite 102, Emeryville, CA 94608; 1-800-454-7557: $44.95, Mac and hopefully Windows)

MEET MEDIABAND

Marc Canter, an original multimedia godhead, is the guiding intelligence behind Meet MediaBand. It's a breakthrough product that demonstrates what will likely become a whole new category of audio-visual interactivity.

The central experiences are two "song-videos" with completely different interfaces that allow you to play with sound and images in various ways. One, "UnDo Me," presents a choice of relationships, behaviors, and outcomes within a traditional pop song structure. The other, "House Jam," lets you trigger video and sound samples with mouse clicks over several endless basic beats.

In other areas, simply moving the mouse around will bring up visuals and change the music. Besides that, the CD-ROM contains archives of early MediaBand members' QuickTime, parts of the business plan, and assorted commentary on the big old/new world of media and its multimutations, making it a fascinating overall view of what the future may hold and how we got to where we are.

This is a close-to-essential title for anyone with an interest in multimedia. (Canter Technology, 101 Commonwealth, San Francisco, CA 94118; 1-800-387-0201: $60, Mac only)

HEADCANDY

I recommend this more as a curiosity than as an excellent product.

It's real simple: five new Brian Eno songs along with full-screen, eye-candy visuals that expand beyond your computer screen when you wear the included prismatic glasses. Interactivity is virtually nil, being basically limited options that any CD

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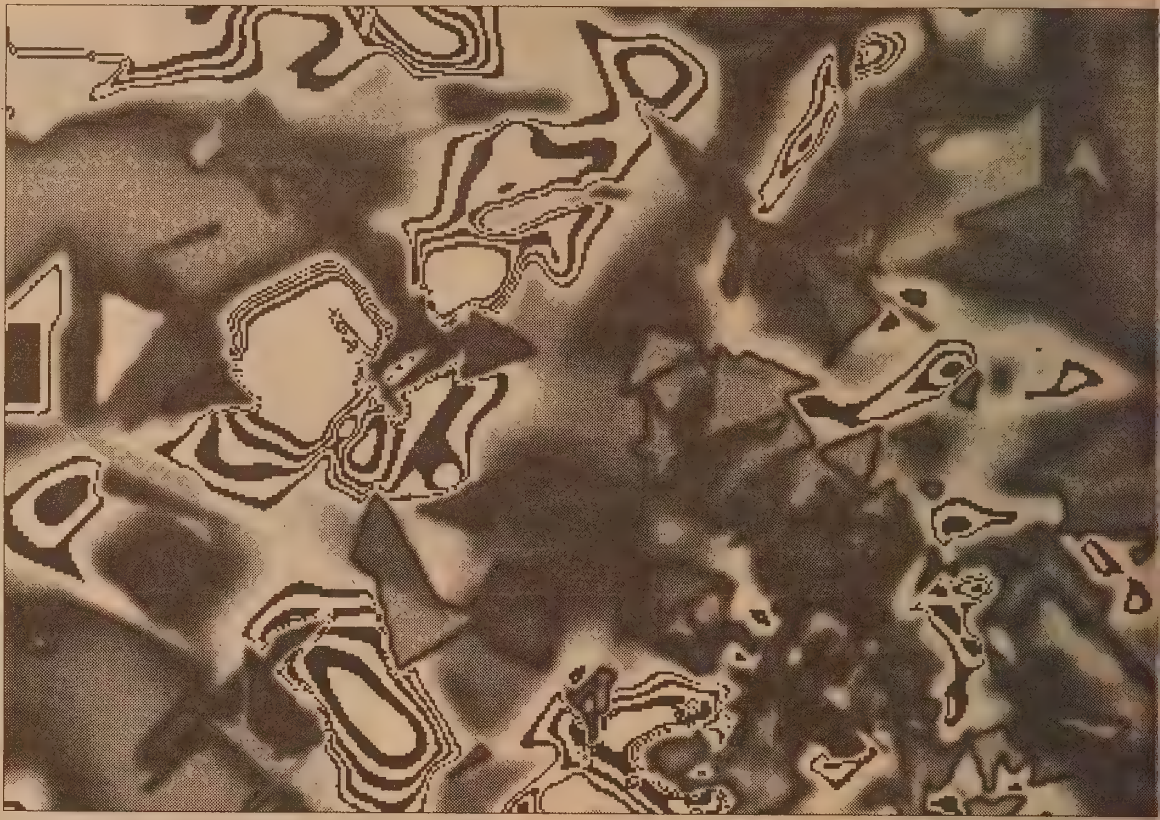
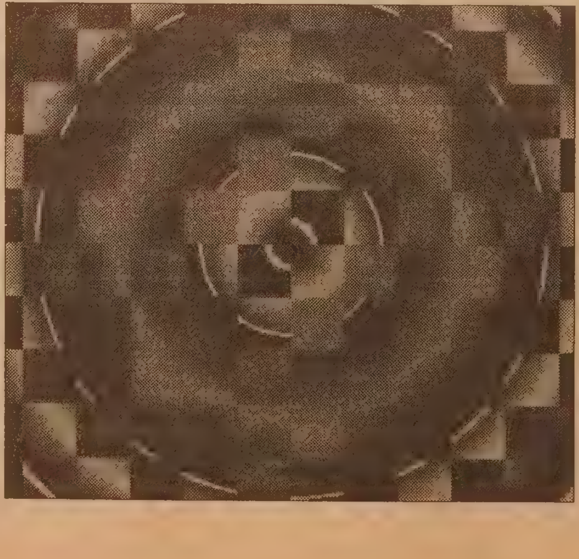


remote with video would offer.

Essentially, HeadCandy uses the computer as a playback machine and no more. The music is a continuation of Eno's electro/beaty/shimmering Nerve Net style and generally well coordinated with the visuals, which are—you guessed it—trippy in the extreme.

HeadCandy taxes computers and will almost certainly not run smoothly. I tried every trick suggested in the booklet and then some, without complete success. Ion recommends that you run it off your hard disk, claiming that it only requires 2 MB; actually it takes up almost 8 and the performance is not dramatically improved.

Frankly, you should get someone to give it to you as a gift; it's little more than a novelty item that you'd probably kick yourself for spending money on—but it's a kinda fun novelty item.



The audio-only version will be available on regular CD in 1995. (Ion, 11845 Olympic Blvd., Ste. 1050, Los Angeles, CA 90064; 310/312-8060: $39.95, Mac only at present, Windows in January)

BLISS SAVER & BLISS PAINT

Multimedia and interactivity don't only come on CD-ROMs as this fabulous screen saver, its creative application, and its vast collection of moving paintings and accessory modules shows. If there's one product here that absorbed my time with the pleasures of playing and thinking about what I was doing (or attempting to do), this is it.

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Really it's four products: the screen saver has some limited but effective interactivity, letting you select designs and manipulate colors; with Paint you can make your own screen saver patterns; Gallery is additional "canned" designs; and Geometric is additional scribblers and distributors used in making your own paintings, along with yet more "canned" art.

The art is trippy and gorgeous—real eye candy. In the Paint application you have a great deal of control over what's on the screen, and can fairly quickly learn how to produce specific results. At advanced levels you can hook up a MIDI device and play visual music, as developer Greg Jalbert does with D'Cückoo and other musicians, including Brian Eno, are starting to do.

Stick an old-fashioned CD in the audio and Bliss Paint in your computer, and you've got something considerably more sophisticated than HeadCandy; something you could spend a lot of time with. (Imaja, PO Box 6386, Albany, CA 94706; 1-800-294-6252: Saver $49.95, Paint $79.95, Bliss Gallery $29.95, Geometric Bliss $39.95, Mac only)

AMERICAN VISIONS—20TH CENTURY ART FROM THE ROY R. NEUBERGER COLLECTION

There are a few things this CD-ROM doesn't do that I wish it did—primarily a slide-show function and easier navigation—but it's a fabulous collection of pre-digital art that looks great on a computer screen.

There's also plenty of ancillary information from critics and the artists themselves; significant events that occurred in the year of the painting are also presented, adding valuable context.

In the cultural line of what young aesthetes do, before multimedia it was rock'n'roll and before that it was painting. Check the QuickTime of Jackson Pollock at work for some fast confirmation of that assertion.

While no substitute for visiting a museum, this is undoubtedly a CD-ROM that the traditional art lover will find interesting. (Eden Interactive, 224 Mississippi, San Francisco, CA 94107; 1-800-743-3360: $99.99, Mac and Windows)

VIRTUAL TAROT

It may not be appropriate to think about Tarot at Christmas, but surely some belief systems in California are broad enough to include both. I myself am a skeptic about the Tarot, but find that it can sometimes have an unnerving closeness to the hidden currents of my life.

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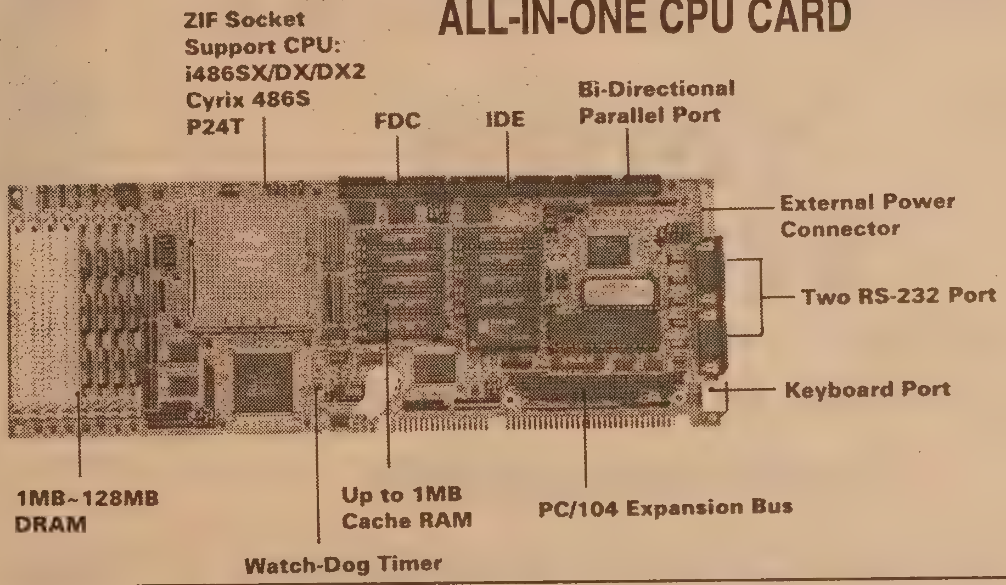
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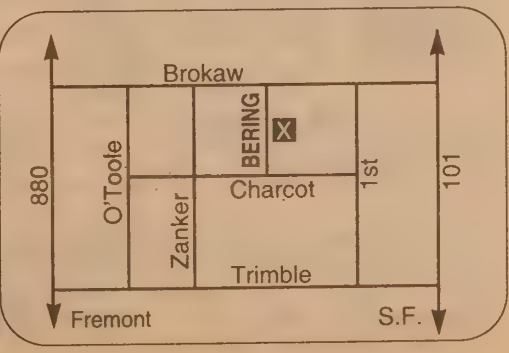
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This CD-ROM has historical background on the Tarot and can be used for divinations. It was tested by *The Psychic Reader* and positively evaluated.

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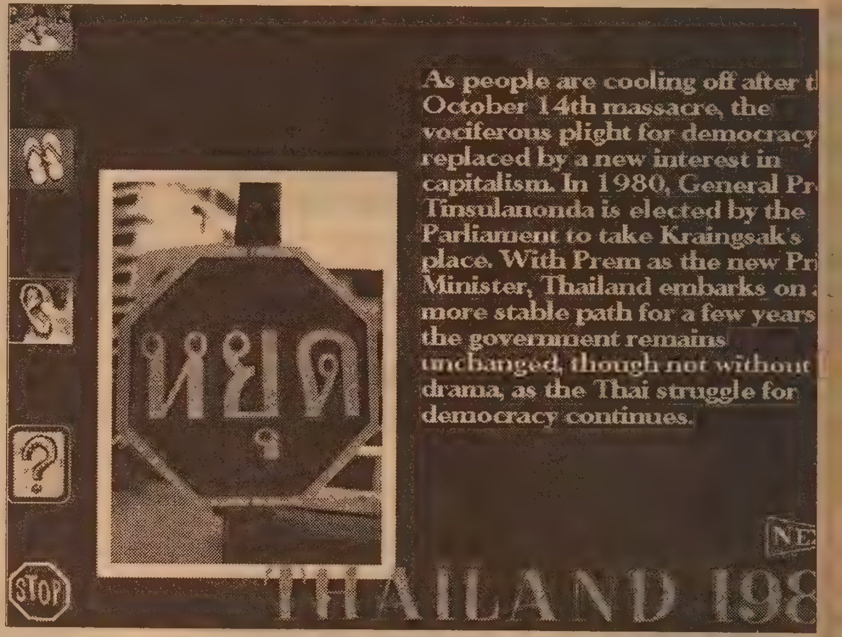

As people are cooling off after t
October 14th massacre, the
vociferous plight for democracy
replaced by a new interest in
capitalism. In 1980, General Pr
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place. With Prem as the new Pr
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more stable path for a few years
the government remains
unchanged, though not without
drama, as the Thai struggle for
democracy continues.

There is a diary-keeping function so you can check out the system's accuracy over the long term.

I found the new-agey music to be somewhat irritating; I can't believe that it's a replacement for the traditional version; the whole thing runs at a speed that requires contemplation—and yet, I'm curiously impressed. As a sort of weird demonstration of multimedia possibilities, it works—and surely any occultist with a CD-ROM drive would be intrigued. (Virtual Media Works Inc., PO Box 70030, Sunnyvale, CA 94086; 1-800-292-3157: $69.95, Mac and Windows)

VOYAGER

Voyager is perhaps the grand old company of multimedia publishing, having begun operations in 1984. The catalog now includes over forty CD-ROM titles and sixty Expanded Books on floppies as well as development tools and over 150 movies on laserdisc. Currently, there's a big push on to convert titles to Windows format.

Another development is the publication of *3Sixty*, basically Voyager's mail-order catalog, consisting mostly of Voyager's own titles but including the best of the rest. There are generous and reasonably objective descriptions—and, just in case you feel conned, a money-back guarantee. I find it a useful reference book, and you'll find plenty of title descriptions that can't fit in this space. Best of all the press release says that you can get one for free by calling 1-800-446-2001 (although the cover says $2). Otherwise for *3Sixty* or to order titles, you can fax to (914)591-6481, email to orders@3sixty.voyagerco.com, or write the old-fashioned way to Voyager at One Bridge Street, Irvington, NY 10533.

Unfortunately, Voyager's production quality can be a bit rough around the edges. For example, the contents screen of A Hard Day's Night lacks the Scripts section. Adding to the frustration, the printed help for some titles (A Hard Day's Night once again) is skimpy, although the onscreen help is somewhat more complete. You know that movie script is in there somewhere, but how do you find it?

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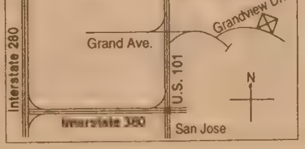

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MultiMedia & BEYOND

Another issue to be aware of with the older Voyager titles (or any older titles from any developer) is that once you've seen some QuickTime 2 in a new title, the earlier versions look really small. The tiny QuickTime 1.x window has never been a great way to watch a movie, but it's now almost laughable. And, of course, anything with a HyperCard front end (and many of Voyager's titles have one) is ssllooooww. It is true, however, that the general design of later titles is a distinct improvement over earlier productions.

Having expressed those caveats, if the subject matter is something you or your recipient enjoy, Voyager titles tend to be good quality. A Hard Day's Night ($39.95, Mac and Windows) has some fascinating reading that any Beatles fan should like. Comic Book Confidential ($49.95, Mac only), based on the Ron Mann film, should have similar appeal to anyone interested in comic-book artists.

The Residents Freak Show ($49.95, Mac only at present, Windows very soon) is one of Voyager's best-known titles, and so I was surprised to hear recently that it had only sold three thousand copies. I'll grant you that it's weird and even a little distasteful—but it is a good example of an artistic piece of multimedia where visuals and sound are not only integrated but reinforce each other's impact. Perhaps more importantly, it's also an original concept that could not be done as a collection of traditional media, as A Hard Day's Night and Comic Book Confidential possibly could be. For this reason alone, it should find a place in at least three thousand more disc drives this season.

The Complete Maus ($49.95, Mac only) has problems handling the sound along with its rich graphics, but once more there's such a wealth of material that you just have to overlook the technical shortcomings.

Macbeth ($49.95 Mac only) has an audio-only performance of Shakespeare's play by the Royal Shakespeare Company, along with film clips of versions by Orson Welles, Akira Kurosawa, and Roman Polanski; commentary and analysis; and The Macbeth Karaoke, where you get to play a role opposite the computer. Dramatic content doesn't come any better than Shakespeare, especially when you understand what's going on—this will help you come to grips with the meaning behind the sometimes archaic language.

Morton Subotnik's All My Hummingbirds Have Alibis ($39.95, Mac only) is self-described as "Chamber Music for CD-ROM," but it's a bit more ambitious than that–it's really an intellectual version of HeadCandy. The audio is Red Book, so you can actually play this on a regular CD player or on your CD-ROM drive while you're doing something else on your computer. The music is inspired by Max Ernst's collage novels, and his art is frequently what's on the screen. Other goodies include, of course, Subotnik talking about what he's doing, and following the score as the music plays. The music is avant-gardeish but quite listenable, and includes elements of *au courant* ambience. Highly recommended for the adventurous who want another angle on the music and multimedia connection.

Continuing in the intellectual vein, Voyager's First Person series offers the opportunity to explore the words and thoughts of authors and professors and, in some cases, some of the original sources that they draw from. Stephen Jay Gould's On Evolution ($49.95, Mac only) features a QuickTime lecture from him on Darwinism plus the complete texts of his own *Bully for Brontosaurus* and Darwin's *The Voyage of the Beagle* and *The Origin of the Species.* There are also maps, other historical documents, and loads of graphs and illustrations. All this material is well linked. While this is all rather text intensive, the fonts are well done and reading from the screen is surprisingly easy.

Marvin Minsky's Society of Mind ($49.95, Mac only) has that book along with a few of his articles, plus a very cool QuickTime tour of his living room, a timeline, and various animations.

Donald A. Norman is a designer, and so you might expect his First Person

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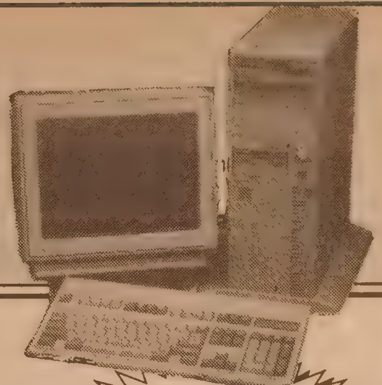

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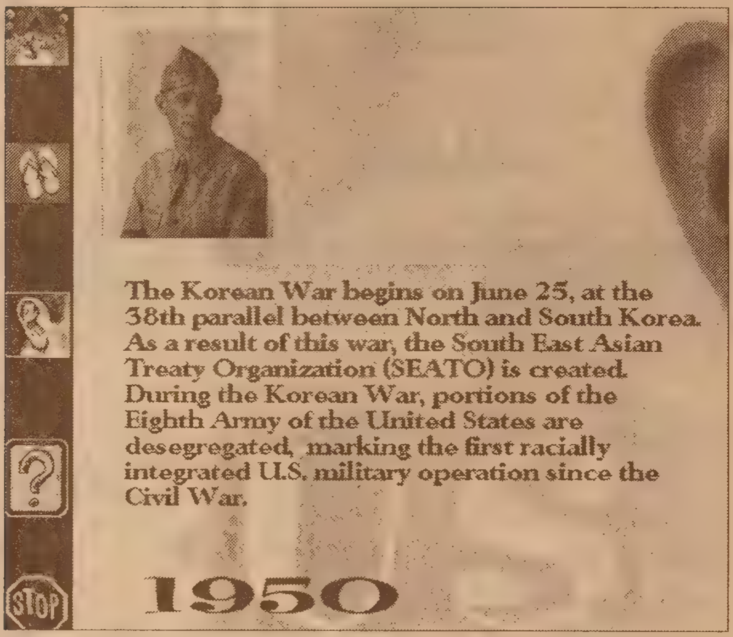

The Korean War begins on June 25, at the 38th parallel between North and South Korea. As a result of this war, the South East Asian Treaty Organization (SEATO) is created. During the Korean War, portions of the Eighth Army of the United States are desegregated, marking the first racially integrated U.S. military operation since the Civil War.

1950

title, Defending Human Attributes in the Age of the Machine ($49.95 Mac only), to be more ambitious than the previous two—and so it is. He begins with an interesting QuickTime discourse on the design and history of computer screens and continues with a talk about electronic books. There's also the full text of three of his books, *The Design of Everyday Things, Turn Signals Are the Facial Expressions of Automobiles*, and *Things That Make Us Smart*, plus the usual other background essays including "The Trouble With UNIX" and "The Trouble With Networks." The Gallery of Unfindable Things is a fascinating full-screen collection of distinctly strange-design non-solutions to problems, complete with his audio commentary.

To round things off, there's a quiz where you get to actually write a little essay. As Norman points out, there's not necessarily a right or wrong answer; the point is to get you to think. Any one with an interest in design, particularly screen design, should get a big kick out of this CD-ROM.

And finally, here's a plain and practical gift suggestion for the Macintosh owner . . .

A lot of things go on under the hood of your Macintosh, many of them humorous and perhaps not particularly official, maybe even clandestine. *Mac & Power Mac Secrets* by David Pogue and Joseph Schorr (IDG Books, $39.95) reveals a fascinating array of those secrets along with all sorts of more mundane knowledge about your Macintosh and how to use it. It comes with three floppies of various goodies. ■

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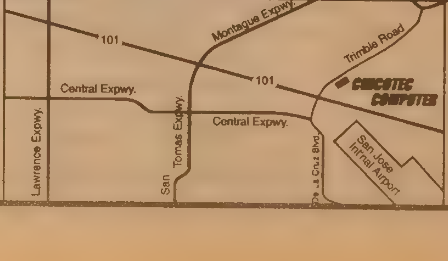

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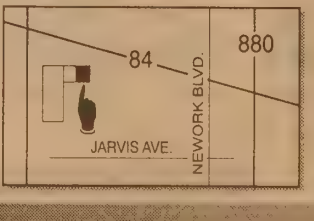

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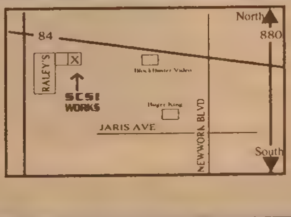

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MACWORLD COMPLETE MAC HANDBOOK

Jim Heid's *Macworld Complete Mac Handbook + Interactive CD Third Edition* ($39.95, IDG Books) is, at 1080 pages, a veritable megalith of Apple lore. Heid is the "Working Smart" columnist for *Macworld* magazine, and he must have worked late a lot of nights to squeeze this encyclopedia of everything Mac-ish between two covers.

He starts where you started, buying a Mac. The family lines of the breed are charted; you get pointers for navigating the interface, and then introductions to the first kinds of work you would do—word processing, spreadsheets, databases, and then on to desktop publishing.

We aren't just talking tips here. The chapter on Fonts and Typography alone is forty-four pages, as much on fonts as covered in some DTP books. Then graphics, presentations, and on to telecommunications. He hits HyperCard and optical character recognition (OCR), and gives a lot of attention to multimedia and QuickTime, with music and MIDI, and then all of the hardware and software involved in expanding your Mac.

One of the strongest benefits of this book is Heid's clear way of presenting information, so that beginner or power user can find what they need quickly.

Hol Krause by Kiffenegger

The CD-ROM is an interactive combination playground, tool room, and home shopping network. It includes Heid's Handbook Interactive Sidebars—companion files to be used as illustrative support for topics in the book. There's a huge section of demo files from the star developers in the Mac constellation like Adobe, Macromedia, and Stratus. The bulging BMUG (Berkeley Macintosh User's Group) folder has dozens of games, utilities, fonts, and graphics, with shareware and freeware that can become yourware.

In all, this massive combo title is an invaluable resource and companion to your Mac.

MULTIMEDIA: MAKING IT WORK

Tay Vaughan, a designer-developer who has been-there/seen-that, has compiled a solid overview of all the building blocks of producing multimedia for Mac and Windows, covering hardware, software, platform configurations, audio, video, animation, and CD-ROMs.

His book, *Multimedia: Making It Work, Second Edition* ($34.95, Osborne/McGraw-Hill, 608 pp.), is outstanding not only for being thorough, but for its recurring and informative reality checks. Especially noteworthy in this regard is the section called "Assembling and Delivering a

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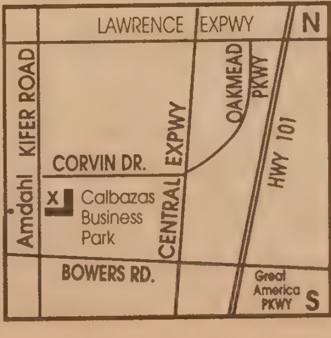


Project," which includes examples such as a production flowchart by Brian Blum.

The CD-ROM is packed with everything from Macromedia for the Mac and Windows, to limited working versions and demos of applications like Action!, MacroModel, and Director.

PHOTOSHOP FILTER FINESSE

True Adobe Photoshop artists may disappear from sight once they get their hands on *Photoshop Filter Finesse* by Bill Niffenegger ($45, Random House Inc., 362 pp.). The author covers the whole microuniverse of special effects and filters for Mac and Windows, from Photoshop native to third-party filters; he even explains how some obscure and forgotten graphic applications can use filters.

The book is richly illustrated in black and white and in color, so that all these case studies and examples can help you in your previsualization for design. The CD-ROM contains sixty Mac and eleven PC filters, and lots of backgrounds, textures, and demos.

ENCYCLOPEDIA OF GRAPHIC FILE FORMATS

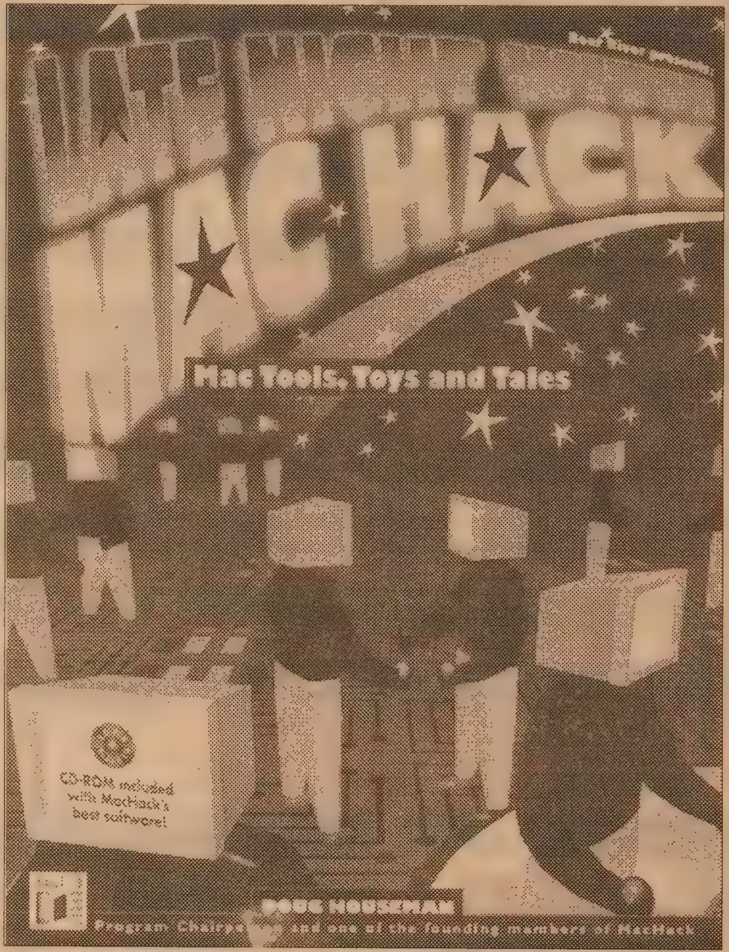
The *Encyclopedia of Graphic File Formats* by James D. Murray and William Vanryper ($59.95, O'Reilly & Assoc., Inc., 982 pp.) is a definitive resource for graphics professionals and developers who need to get those pixels right for every application. The authors cover graphics concepts and programming, including such topics as types of graphic data, truecolor, palettes, and dealing with color. They provide animation and multimedia format information, compression, and JPEG and MPEG specs.

The CD-ROM is a collection of original file format specifications documents from vendors such as Adobe, Aldus, Apple, IBM, Microsoft, and SGI.

BYTE GUIDE TO CD-ROM

The *BYTE Guide to CD-ROM* ($39.95, Osborne/McGraw-Hill, 405 pp.) by Michael Nadeau, a *BYTE* magazine senior editor, does indeed tell you "everything you always wanted to know about CD-ROM" for Macintosh and Windows. It's really intended for those of us who may want to create multimedia documents and transfer them to CD, an area where there's more at stake than on the playback-only side of the technology.

The author gives a clear and complete overview of CDs, including future directions of the medium. He covers installation, burning ROMs, pressing software, networking players, and trouble-shooting; there's also a standards guide and a buyer's guide. The CD-ROM has limited working versions of Macromedia Authorware, Fractal Painter, reference books, clip media, and shareware for the PC.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RAY TRACING FOR THE MACINTOSH

We may have come to expect most of our graphics to have those richly rendered and marbled textures that come from ray tracing in computer graphics, but feel that it is beyond our desktop.

Eduard Schwan's *Ray Tracing for the Macintosh CD* ($32.95, Waite Group Press, 180 pp.) can meet your Mac at least halfway. The CD-ROM includes a special version of POV-Ray (which is native to Power Macs) with the reference database and source code, and which has a very good preview mode.

This is not for the RAM-deficient or the programmatically challenged. But it is so cool when it works!

LATE NIGHT WITH MAC HACK

Late Night With Mac Hack: Mac Tools, Toys and Tales ($29.95, M&T Books, 244 pp.) will keep you off the streets at night and at home with a code. This is a "what I did at summer camp" compilation of the goings-on at the renowned annual Mac Hack Conferences, where three hundred of the top Macintosh programmers gather. You'll get the skinny on the way System 7 was shaped and where programmers are pushing the envelope on the next generation of Macs. The CD-ROM contains one hundred of the best hacks, including NetBunny, Jurassicon Park, DropSave, and Wavy.

VIRTUAL PLAYHOUSE

But if you want it all now, Jonathan Price's *Virtual Playhouse for Macintosh* ($39.95, Hayden Books, 783 pp.) is your key to a multimedia holiday. On the pages and in the CD-ROM, you will find explanations and examples of games, artificial life, fractals, painting and drawing, 3-D, morphing, image editing and manipulation, QuickTime, sound, multimedia, virtual reality, HyperCard, narration, telecommunications, and design.

It helps if you start this on a weekend. ■

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Product Reviews

game reviews

SAM & MAX

Designed By: Sean Clark, Mike Stemmle, Steve Purcell, Collette Michaud
Published By: Lucasarts Entertainment Co.
For: IBM 386, DOS 5.0, 4MB RAM, CD-ROM, VGA, Adlib/SoundBlaster/PAS/MT-32/General MIDI
List Price: $54.99
Reviewed By: Fred Haslam

Sam & Max is a surprise and a delight, demonstrating the best possibilities of CD technology. This game has full-screen, quality animation with professional cartoon voices synched in. The adventure is so wonderful that I nominate it for Game of the Year (my second nomination for 1994).

This is an adventure game. Sam and his little buddy Max have been called in to locate a missing Bigfoot for the Kushman Brothers Carnival. Their adventures take them to the seven cheesy wonders of the world, including the largest ball of string and the celebrity vegetable farm. Using their own peculiar combination of wit and violence, our heroes manage to outsmart the evil country singer Conroy Bumpus and destroy a sizable chunk of western civilization.

The interface is mouse driven. It utilizes the standard tools of most adventure games, although the icons can be puzzling at first. The graphics are "cartoony," but excellent nonetheless. The animation is superb. Only digitized movies could be better. The music is understated, but the sound is marvelous. The real gem in this game are the character voices. *Do not buy this game unless you get the "full talky" version!*

Sam & Max is an imaginative adventure. You wander through a strange world defined by supermarket tabloids. A problem with this game is that you can't finish without the hint-book. Normally, I would be wroth—but this adventure is so delightful that I am willing to overlook this one liability. (Lucasarts Entertainment Co., PO Box 10307, San Rafael, CA 94912. 1-800-STAR-WARS)

THEME PARK

Designed By: Bullfrog Productions Ltd.
Published By: Electronic Arts
For: IBM 386, DOS 5.0, 4MB RAM, VGA, CD-ROM, mouse, Sound Blaster/Adlib/ProAdio/Roland/WaveBlaster
List Price: $49.99
Reviewed By: Fred Haslam

Theme Park is a wonderful, engaging, engrossing, entertaining game. The interface can drive you nuts, but in this case there is enough of a reward to forgive the transgression.

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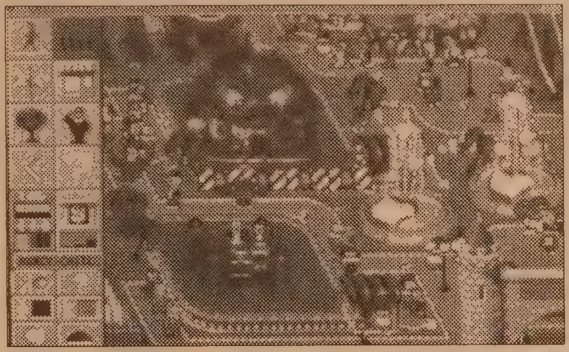
SAM & MAX



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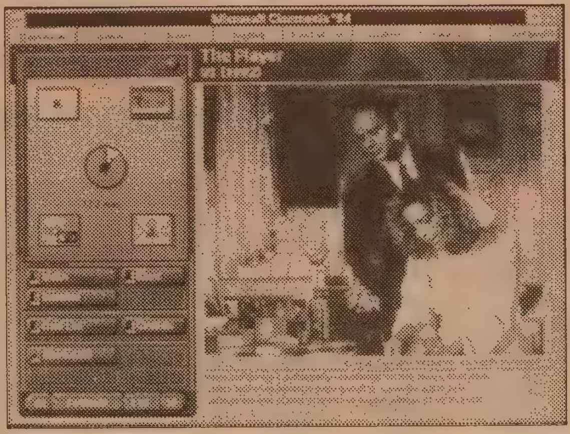

MICROSOFT CINEMANIA '94

In this British import, you build an amusement park. Much like other construction games, you lay down facilities and infrastructure. In this case, facilities are theaters, mazes, and rides of various sorts; while infrastructure is paths, bathrooms, and concession stands. Your twin goals are to make your patrons happy and to fleece them of cash.

The really cool thing about Theme Park is the patrons. You can see the little people running around the park, getting onto rides, and buying food and toys. And every single person is a simulation! They are all making choices about which path to follow, and what they want to do next. They often display little thought balloons to show you what they are thinking.

The interface is average, somewhat confusing and quirky. The graphics are decent and imaginative. There are a variety of high-quality 3-D rendered animations attached to the various rides. The music is good—a different theme for each ride. The sound is excellent! They have captured the sounds of an amusement park, giving you the feel of being on the spot.

Theme Park is a construction game. You have a budget to balance as you build your park. You compete with other parks for patrons, trying to score in six categories (excitement, safety, etc.). The game is engrossing and challenging—I recommend it highly. (Electronic Arts, Inc., PO Box 7578, San Mateo, CA 94403-7578. 415/572-2787)

macintosh software reviews

MICROSOFT CINEMANIA '94

Published By: Microsoft Corp.
List Price: $64.95
Reviewed By: Matthew Leeds

Cinemania '94 is a CD-ROM-based movie guide. Drawing on movie reviews by Leonard Maltin, Roger Ebert, Pauline Kael, and the *Encyclopedia of Film,* it covers over twenty-two thousand reviews, almost four thousand movie personalities, and has over two thousand stills of actors, directors, and others. It also has more than nine hundred movie stills, video scenes from twenty of the best movies of all time, and theme music and dialog from over two hundred films. The complete list of Academy Award winners and nominees is also provided.

The program contains an easy-to-use database that lets you quickly create lists of movies based on criteria you select. Want to see every film that Don Amiche performed in? All the films directed by Paul Newman? Just select them from the pop-up list in the appropriate category. Once your list is finished you can either save a copy or print it. I'd love to see a copy of Cinemania '94 running in every videotape rental store I frequent for those times I can't figure out what to see. (Microsoft Corp., One Microsoft Way, Redmond, WA 98052)

SCENERY ANIMATOR V1.1

Published By: Natural Graphics
List Price: $149
Reviewed By: Matthew Leeds

Did you ever have to make a 3-D map in school? Remember mixing flour, water, and food coloring to create mountains, lakes, and trees? Remember how it looked? It's much easier to use Scenery Animator. Scenery Animator is a 3-D landscape rendering and animation program. It uses three-

Product Reviews *continued...*

dimensional data from the US Geological Survey (or from a built-in fractal generator) to create realistic landscapes complete with trees, lakes, mountains, clouds, and shorelines.

The program provides complete control over camera position, angle, and elevation; snow and water level; lighting; colors; and trees. Digital data for landscapes covering portions of the Grand Canyon, Yosemite, Oahu, Mt. St. Helens, and the Moon are included, and other landscape data can be purchased.

In addition to rendering still images of landscapes, you can lay out a flight path through a landscape and create QuickTime movies of your flight. Controls for straight and curved flights including banked turns make setting up a path easy. The entire interface is well thought out and simple to use. The first version of the program was released for the Amiga in 1991, but this Mac version has been rebuilt from the ground up. Support for 68040 or Power Macs is provided, including '040 versions with and without FPU support.

New features in this version include support for export of DXF and color map files, and import and export of grayscale PICT files to allow you to edit landscapes in a paint program then reimport for rendering. Each gray level is interpreted as an elevation. This is a very cool program, and lots of fun to play with. (Natural Graphics, c/o Brett Casebolt, 4603 Slate Ct., Rocklin, CA 95677)

TYPESTRY 2 AND SHOWPLACE 2.1 CD

Published By: Pixar
List Price: Typestry 2, $299; Showplace 2.1 CD, $395
Reviewed By; Matthew Leeds

Pixar has a great reputation for producing quality 3-D products. Typestry and Showplace each offer unique features, use the excellent RenderMan rendering engine, and have recently been upgraded. Typestry lets you create 3-D rendered text easily and with great results; Showplace handles 3-D objects including text.

Typestry 2 takes the original version and improves on it. You can now use Type 1 or TrueType fonts as well as Illustrator files. Starting with these, you can add 3-D effects such as bevels and tube edges that can be edited and saved for future use. You have control over up to nineteen lights with variables such as position, color, intensity, shadows, and fog. There are a great variety of other effects including motion blur, shooting particles, projections and gels, warps, and perforations.

The results of your work can be output as a PICT, TIFF, EPS, RIB (for use in a Renderman environment), or as a QuickTime movie. Alpha channel support is included, and there is full control over the quality and resolution of images.

Just released is Typestry 2.1, which adds support for QuickDraw GX (in System 7.5) and Power Macintosh.

Showplace v2.0 is a marked improvement over the earlier version. As with v1, you can position existing 3-D objects in a scene, set camera angle and position, lighting, surface appearance, and render the results.

One of the major changes in v2.0 is the addition

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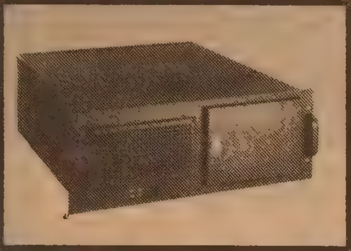

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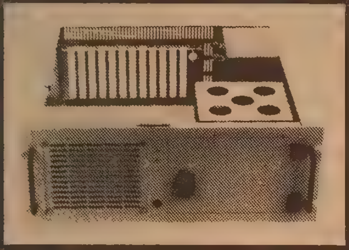

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- 10" .28 dot pitch SVGA Color
- 9" Mono-TTL or VGA
- 8 or 14 Slot Passive Backplane
- 8 Slot Motherboard Mounting
- U.S.A. Manufactured

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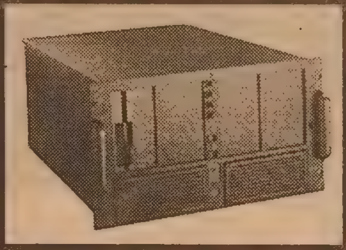

- 8, 14 & 20 Slot Options
- Dual Power Supplies
- Power Supply Redundancy Option
- 8 Drive Bays
- 8 Fans
- Motherboard or Passive Backplane
- 200-1000 Watt Power Supply
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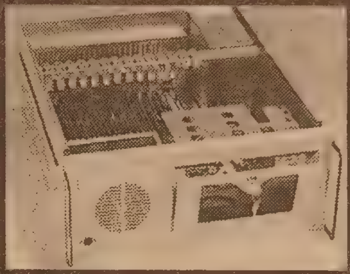

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- Cooling Fan

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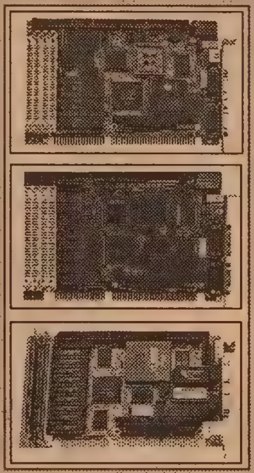

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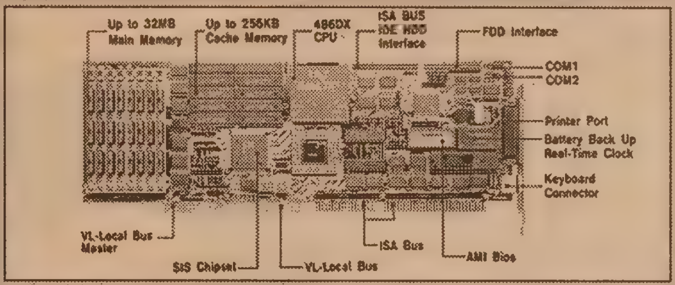

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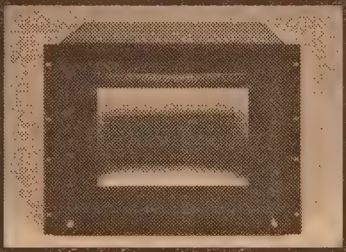

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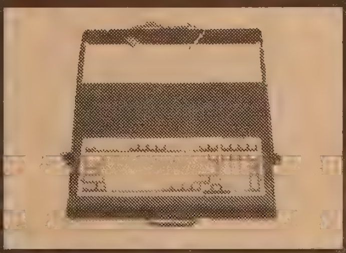

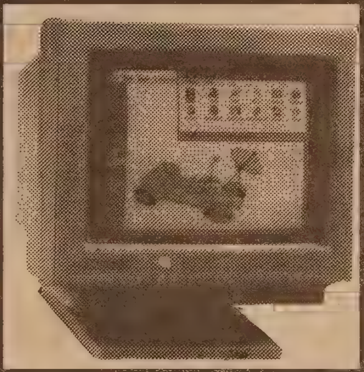

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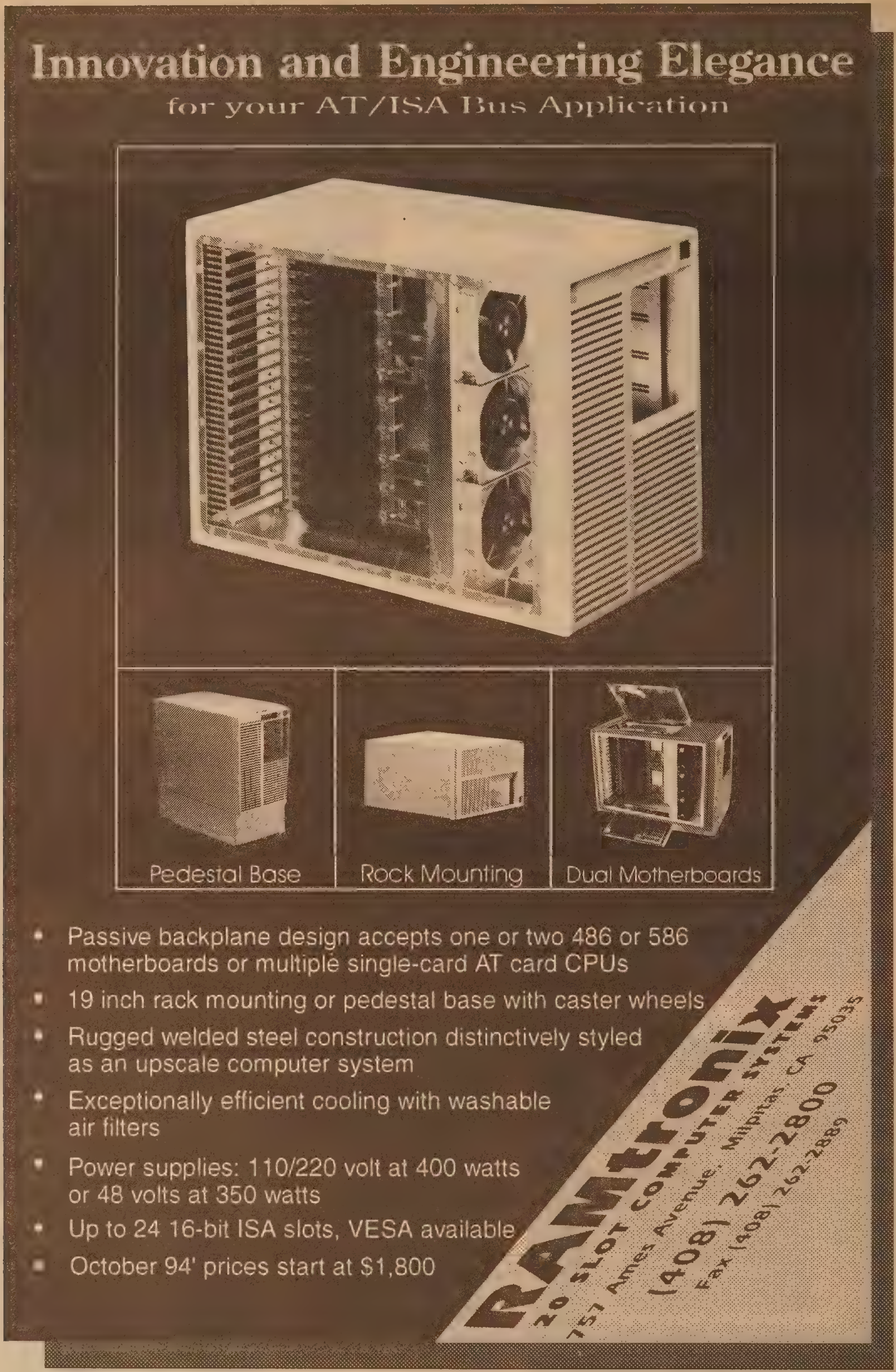

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Product Reviews *continued...*

of Showplace plug-ins. These essentially are object generators, letting you create an object that can be modified. Pixar provides a plug-in development kit as well for users with a programming background. This version also will import DXF and Illustrator files.

Another major change is the inclusion of Glimpse, a Look editor. Looks are descriptions of the surface appearance of an object. You can either edit existing Looks to create new ones or import PICT or TIFF files to create texture-mapped Looks.

Finally, Showplace includes a three-station license for NetRenderMan Mac, letting you spread the rendering load across other Macs on a network. There is also a copy of NetRenderMan for offloading the rendering load to a UNIX machine. (Pixar, Inc., 1001 W. Cutting Blvd., Richmond, CA 94804. 510/236-4000)

pc software reviews

CLICKBOOK V1.1

Published By: BookMaker
List Price: $69.95
Reviewed By: Woody Liswood

There are only a few programs which I feel are absolute necessities for the modern Windows-based office. Clickbook from Bookmaker is one of those.

This tiny little program turns your printer into a massive publisher. With just a mouse click or two you can take a group of pages from your favorite word processor and turn it into the four-page double-sided booklet you need.

This great program is really a money saver. Since Clickbook does all the work, your printer will only need to charge you for printing, collating, and maybe even binding. Clickbook takes care of your layouts and page numbering so that the booklet is delivered as camera-ready copy.

I use Clickbook to print a 70-page Employee Handbook. The original is in AmiPro. Each year I update it and distribute the current version to all our employees. The editing and changes are normal word processing chores. The printing, now, is also a simple chore. When I'm ready, I just select Clickbook as my printer. When I print, the clickbook menu lets me select a double-sided booklet on normal paper. Clickbook thinks for a minute, and prints all of the inside pages. It stops, instructs me to take the paper out of the printer, turn it around, and place the paper back into the printer before it prints the outside pages. This produces a foldable booklet, printed on both sides of the paper with everything in place. I check it out. Things look OK, so I print again, only this time I print the outside sheets on fresh paper. These camera-ready pages go the printer to make all the booklets I need.

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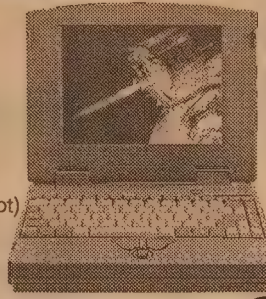

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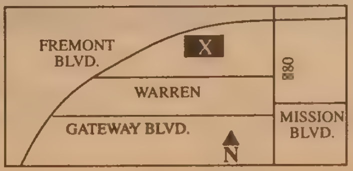

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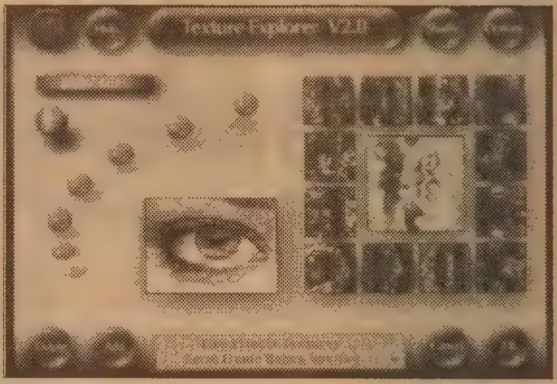

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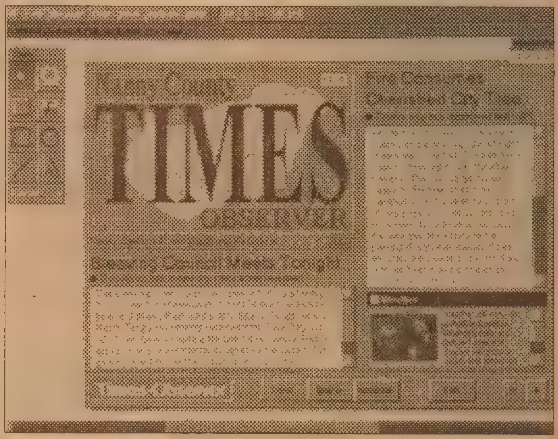

NEOBOOK PROFESSIONAL 2.0

I could not find any problems with Clickbook. However, you may need to do some experimenting along the way. Clickbook makes various assumptions about the text as it converts the word processor document into what it feels is the appropriate size and type for your booklet.

This is one of the most useful programs I've got for my Windows-based PC. I wouldn't set up a PC without it. (BookMaker, 2470 El Camino Real, Suite 108, Palo Alto, CA 94301. 415/354-8166)

KAI'S POWER TOOLS FOR WINDOWS V2.0

Published By: HSC Software
List Price: $199
Reviewed By: Pamela Mason

Even if you have absolutely no practical need for this program, you should buy it anyway, for the sheer fun of it! Where else can you apply neon glow worms or vortex tiling to an image? As most desktop publishers and graphic artists are well aware, this package is a serious tool for anyone who creates images, whether fine art or graphic. Because Kai's Power Tools (KPT) is an image *generator*, it offers the user the ability to explore infinite visual possibilities and combinations. KPT consists of thirty-three plug-in filters and extensions and runs from within host graphics programs with compatible architecture, such as Adobe Photoshop, Aldus Photostyler, Fractal Design Painter, Fauve Matisse, Corel Photopaint, Altamira Composer, and Micrografx

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- * Mini tower case
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- * IDE & I/O Controller

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- * SVGA Card w/1MB
- * 101 Enhanced K/B
- * Mini tower case
- * Serial mouse
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CYRIX 486DX-40 MHZ	CALL
CYRIX 486DX-66 MHZ	CALL
TI 486DLC-40 MHZ	CALL
INTEL 486SX-25 MHZ	CALL
INTEL 486SX-33 MHZ	CALL
INTEL 486DX-33 MHZ	CALL
INTEL 486DX2-50 MHZ.	CALL
INTEL 486DX-50 MHZ..	CALL
INTEL 486DX2-66 MHZ.	CALL
INTEL P5-60 MHZ	CALL
INTEL P5-66 MHZ.	CALL
INTEL P5-90 MHZ.	CALL

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Kelvin64 VLB/PCI 2MB (CL-5434)	$168

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Spider Tarantula 64 VRAM VLB/PCI 2MB	$265
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Graphic Ultra Pro VLB 2MB (OEM)	$228
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MicroSoft Bus Mouse	$59
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486DX-50 INTEL	289
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386DX-40	42

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64X4-20	7^{99}
64X4-15	9^{19}
8X8-20	3^{00}
8X8-25	2^{00}
8X8-15	3^{00}
16X2-25	2^{00}
16X4-15	4^{00}
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EPSON EPL-6000; TOSHIBA PAGELASER 6; PACKARD BELL PP9500; FACIT P6060; MANNESMAN TALLY 905; AT&T 593 LASER; NCR 6435 LASER	1/2/4MB BOARD	155/160/260

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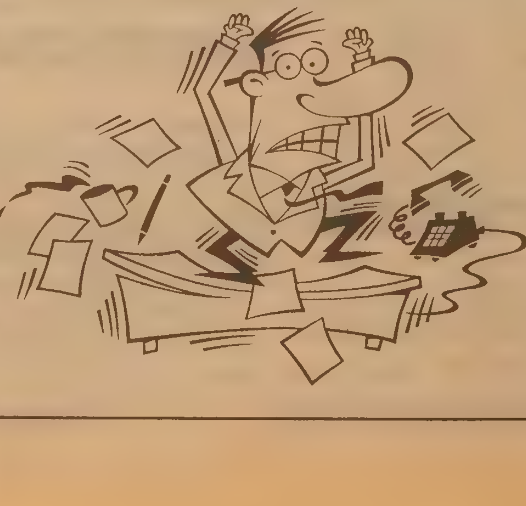

Product Reviews *continued...*

Picture Publisher. Just in case you don't have one of these packages, the 2.0 version comes bundled with Aldus Photostyler Lite.

This version offers immediate realtime preview capabilities, improved speed performance, color enhancement with internal 48-bit color, and the ability to work directly in the CMYK color space. All the modules—the Gradient Designer, the Texture Explorer, and the Fractal Explorer—allow saving of "presets." These presets and the hundreds of supplied sample presets can be shared between the modules and applied to any image. There are many powerful transparency options such as alpha channel, and Photoshop's most powerful calculation commands such as Add, Subtract, Multiply, Screen, and Difference are now standard modes within KPT. The new Equalizer brings unprecedented control to the Texture Explorer. I reviewed this using a beta copy of Adobe Photoshop 3.0, and with its new multi-layering editing and alpha-channel capabilities this combination is a veritable image-processing feast!

This is the most innovative image processing package on the market—bar none. The feature that sets this program apart is the sophisticated user interface with its push-and-pull widgets that encourage experimentation. It lacks the standard clutter of text menus everywhere. The menus are there, but are "asleep" and only invoked when needed. John J. Wilczak, chairman and CEO, says, "KPT was meant to deliver something that very few products deliver, that being a sense of discovery within the creative process." It delivers. (HSC Software, 6303 Carpenteria Ave., Carpenteria, CA 93013. 805/566-6200)

NEOBOOK PROFESSIONAL 2.0

Published By: NeoSoft Corp.
List Price: Shareware, $89.95; retail, $99.95
Reviewed By: Pamela Mason

NeoBook Professional 2.0 is a DOS-based interactive multimedia authoring system. This package does not try to please all of the people all of the time. Rather, it has one focused goal: to ensure that the average computer user can create multimedia presentations that play on the PC, including older models. NeoBook's sleek design allows you to get right to work without the steep learning curve generally associated with authoring packages. I created a decent presentation, which included a flic, in several hours! The standalone .EXE files that you create can be distributed royalty-free.

NeoBook Pro's strength lies in its intuitive interface. Its minimalist design shows just how eloquent simplicity can be. You can quickly utilize its features and therefore spend your time designing a presentation rather than trying to figure out how to use the program. If you want to edit an image, a flic, or a text file, simply switch to your favorite word processing

continued on page 144

TOP DATA MONTHLY SPECIALS

SYSTEM	M/B +CPU	BASIC SYSTEM	BASIC SYS 170MB HDD 14" MONO	BASIC SYS 170MB HDD 14" MONO VGA	BASIC SYS 170MB HDD 14" SVGA	BASIC SYS+4MB 170MB HDD 14" SVGA	BASIC SYS+4MB 400MB HDD 14" SVGA	BASIC SYS+4MB 540MB HDD 14" SVGA	BASIC SYS+8MB 1GB HDD 14" SVGA
Pentium 100C PCI/VLB	869	1,029*	1,269	1,309	1,429	1,539	1,599	1,679	2,039
Pentium 90C PCI W/PCI IDE & IO	759	939*	1,179	1,219	1,339	1,449	1,509	1,589	1,949
Pentium 90C PCI/VLB	759	929*	1,169	1,209	1,329	1,439	1,499	1,579	1,939
Nx586-P90/256C VLB	699	859*	1,099	1,139	1,259	1,369	1,429	1,509	1,869
Pentium-66C PCI W/PCI IDE & IO	629	799*	1,039	1,079	1,199	1,309	1,369	1,449	1,809
Pentium 66C PCI/VLB	629	819*	1,029	1,089	1,189	1,299	1,359	1,439	1,799
486DX4-100C PCI W/PCI IDE & IO	599	809	1,019	1,079	1,179	1,289	1,349	1,429	1,789
486DX4-100C VLB	519	699	939	979	1,099	1,209	1,269	1,349	1,709
486DX2-80C VLB DX4 Upgrdble	259	419	659	699	819	929	989	1,069	1,429
486DX2-66C VLB	219	379	619	659	779	889	949	1,029	1,389
486DX50C VLB	219	379	619	659	779	889	949	1,029	1,389
486DX40C VLB	169	329	569	609	729	839	899	979	1,339
486SX33C VLB	149	309	549	589	709	819	879	959	1,319
486DLC-40C ISA 87DX40 Inc'd	149	309	549	589	709	819	879	959	1,319
486DX2-66C ISA	209	389	609	649	769	879	939	1,019	1,379
486DX50C ISA	209	389	609	649	769	879	939	1,019	1,379
486DX2-50C ISA	159	319	559	599	719	829	889	969	1,329
486DX40C ISA	159	319	559	599	719	829	889	969	1,329
486SX50 ISA	149	309	549	589	709	819	879	959	1,319
486SX40 ISA	139	299	539	579	699	809	869	949	1,309
486SX33C ISA	119	279	519	559	679	789	849	929	1,289
486DLC40C ISA 87DX40Inc'd	139	299	539	579	699	809	869	949	1,309
486SLC33 ISA [illegible]	89	249	489	529	649	759	819	899	1,259
386DX40C ISA 486 Upgdbl	89	249	489	529	649	759	819	899	1,259
386SX40 ISA SX25 LESS$10	59	219	459	499	619	729	789	869	1,229

BASIC SYSTEM: MB W/CPU, 1MB MEMORY, SUPER IDE, 1.44MB FD, MINI TOWER W/230W PS & KEYBOARD.

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14" 34T 1024NI .28 VESA/EPA..239
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21", F760IW, 1280X1024 .31.....1,869
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15", 3V/4FGe.........................459/609
17", 5FGe/5FGp...................949/1069
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SpeedStar PRO 1MB/64.........99/149
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24/32 1mb/32 2mb..............129/169/219
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TSENG LAB
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NETWARE 2.20/3.12/4.01 PLS CALL

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8KB Instruction cache/8KB data cache
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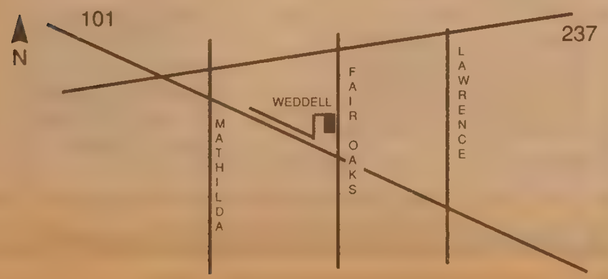

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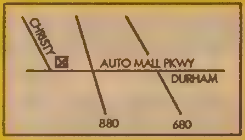

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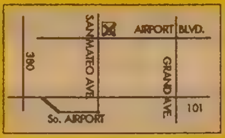

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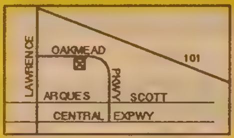

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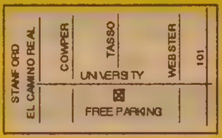

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Product Reviews

continued from page 140

and image processing programs then jump back into NeoBook Pro to place them. The ability to run FLI and FLC flics attached to a button or from within a given window area on the screen was the most appealing feature of this program to me. The button maker for creating interactive buttons offers a drop-down menu of choices that you can then connect to the "hot" button. NeoBook Pro supports Sound Blaster's .VOC file format for sound, or it can access the PC's internal speaker for playing and editing SNG music files for use on older computers or computers that lack a sound board.

Because it is DOS based you have the drawback of not having direct TrueType font access. Fonts use the .GEM font file format renamed to .GFT. You could convert vector, or TrueType fonts to bitmapped fonts with an outside conversion utility though, and with a little extra effort have a wider variety of fonts than initially offered with the package. Three extra font disks that have about thirty fonts each are available for $10 each.

The bottom line: Don't let the low price fool you, this package is a real value. It offers both ease-of-use and features that many much more expensive packages lack. If you are just getting started in multimedia this is a great place to begin; if you already use a high-end package this one might surprise you.

Shareware and retail versions available. The retail version includes a Templates disk with formatting ideas for creating electronic publications. A Multimedia Pak is also available for $169.95 that includes NeoPaint (paint program), NeoShow 2.5 (slide show program), and NeoBook 2.0. (NeoSoft Corp., 354 NE Greenwood Ave., Suite 108, Bend, OR 97701-4631. 503/389-5489)

THE GREATEST PAPER AIRPLANES

Published By: Kitty Hawk Software

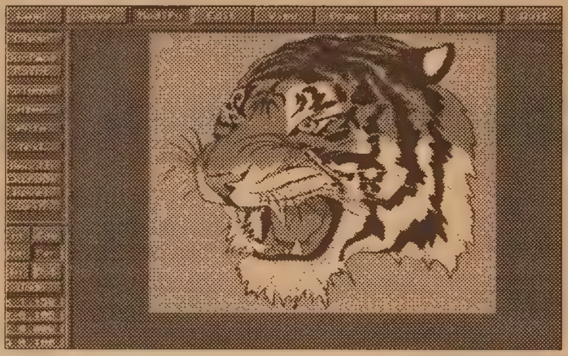
List Price: $39.95 (special price of $29.95 through December 31, 1994)

Reviewed By: Summer Yacco

Have you ever tried to see how many ways you could fold a paper airplane? That's what Kitty Hawk Software did, and they came up with twenty-five cool ways to throw a piece of paper. The Greatest Paper Airplanes not only shows you how to fold these airplanes, it offers plenty of tips and hints about how to launch and fly each one, too. At the same time it also teaches you the basics of aerodynamics, the history of flight, and terminology.

People of all ages love folding paper airplanes, and with this program a smart three-year-old can do it. Paper Airplanes gives you easy instructions, and shows each fold in sequence. The advance button lets you zoom in and out, rotate the view, and position it anywhere on the screen. You can even stop in the middle of a step to see exactly what's happening. Another feature lets you skip the regular stops along the way.

If you have problems making folds properly, you can use a template. The product includes a pad with a different plane, including dotted fold lines, on each page. There are two pages for each airplane, and if you run out, you can print your own.



PIXEL 3D PROFESSIONAL V2.0

You might wonder if new paper airplane designs could fly as well as the common type. Rest assured, the designs in the Greatest Paper Airplanes, from the Hammerhead to the Kingfisher, all fly well. You'll have hours of fun with the Greatest Paper Airplanes. (Kitty Hawk Software, Inc., PO Box 94189. Tuscon, AZ 85728. 1-800-777-5745 or 602/622-2200)

amiga software reviews

PEGGER 2.0

Published By: Heifner Communications, Inc

List Price: Limited Time Offer $49.95; Regularly, $99.95; Upgrade $15

Reviewed By: Douglas J. Nakakihara

Pegger is a utility for the Amiga that allows any program to use JPEG compressed files. Basically, Pegger quietly sits in the background until a program tries to load or save an image file. At that point it automatically translates to or from JPEG and one of thirteen different file formats, including IFF24, VideoToaster framestore, DCTV 3 and 4 (filtered and non-filtered), HAM8, Impulse RGB8, IFF8, IFF8 grayscale, Targa, JPEG grayscale, and Toaster CG. The calling program never knows the difference. It can also be used to batch process a directory of files.

Although the JPEG compression is adjustable, the default setting of 85 lets you store VideoToaster framestores using over 90% less filespace! Darker images may require a higher setting, but you'll still probably end up with files 75% smaller.

The coolest new feature is "snoop by program." In the previous version you had to specify specific directories which Pegger should operate on when any program loaded or saved an image file. Now you can specify by program, so images will be processed no matter where they are stored. This means that multiple programs that require different file formats can use the same JPEG files. For example, an application can read JPEG images in the Toaster Framestore directory as IFF24 files.

Pegger now works across networks, including Parnet and AmigaLink. Processing speed has also been significantly increased. If you work with the VideoToaster or just 24-bit images, Pegger is nothing less than a must-have utility! (Heifner Communications, Inc., 4451 I-70 Dr. NW, Columbia, MO 65202. 1-800-445-6164)

PIXEL 3D PROFESSIONAL V2

Published By: Axiom Software

List Price: $299.95

Reviewed By: Douglas J. Nakakihara

Pixel 3D Professional v2 is a 3-D object utility program for the Amiga. Because PixelPro can load and save objects in many different formats, it is great when used only as a conversion program. Bitmapped fonts and images (with adjustable smoothing), as well as PostScript fonts and EPS files can also be loaded, so it is great for "flying" logo work.

Several surface and point editing functions are probably duplicated in whatever 3-D modeler program you are using. However, there are some incredibly handy tools to automatically merge polygons and reduce vertices, using user-defined tolerance levels. Proper use of these tools will reduce rendering times with little or no visual difference. Automatic beveling is also featured with customizable "router bits."

Surface naming, editing, and coloring is also featured. I particularly liked the ability to choose a polygon and find out its surface name. Multiple objects can be loaded and PixelPro allows you to manipulate object hierarchies. Objects can be viewed using various levels of detail and camera angles, making PixelPro handy for quickly viewing objects in something more than wireframe.

PixelPro's look and feel is very much like LightWave 3D, so many users will feel right at home. The concept of "chosen" and "selected" takes a while to understand, but on the whole it is a fairly easy program to learn. ARexx is supported with a full command set and the program will take advantage of AGA chipset. This would be a solid addition to anyone's 3-D tool arsenal. (Axiom Software, Inc., 1526 122nd St., Burnsville, MN 55337. 612/894-0596)

cd-rom reviews

SYNDESIS 3D-ROM VOLUMES I & II

Published By: Syndesis Corp.

List Price: $99.95 each

Reviewed By: Douglas J. Nakakihara

Syndesis has put together a collection of over five hundred 3-D objects (Volume I) and another with over two hundred (Volume II). Every object comes in LightWave, Imagine, AutoCAD, 3D Studio, and Wavefront formats (including some scene files).

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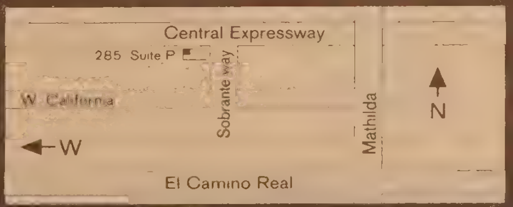

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Product Reviews *continued...*

Volume I also includes more than four hundred tileable TIFF, GIF, and IFF24 images. These ISO9660 CDs are compatible with virtually any computer platform.

The bulk of the objects were gathered from PD sources or contributed by the artists. However, several detailed objects are from commercial modeling companies. As a result, the quality of objects varies widely and usability will depend on your needs. Using LightWave, I found a few objects had minor extraneous polygons, unusual pivot point locations, and incorrectly facing polygons. You may also have to eliminate non-planar polygons. Fortunately, these small nuisances are very easy to correct.

The best feature is the manual's object and texture picture catalog, which provides thumbnail examples. There is also a detailed index and file listing. The only gripe I have is that the filename used in the printed pictures was not always used to sort the file listing, so it sometimes took some searching to find the actual file location.

It is important to note that Syndesis is not a 3-D object vendor, rather these CDs demonstrate their 3-D object file format translation system called InterChange. Still, these CDs offer a great addition to any 3-D artist's object library and are reasonably priced. (Syndesis Corp., 235 S. Main St., Jefferson, WI 53549. 414/674-5200)

SYNDESIS AVALON CD

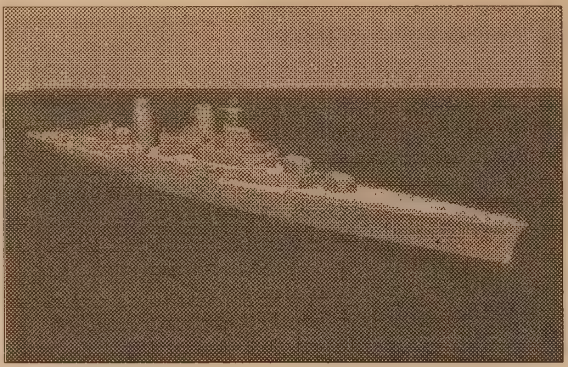
Published By: Syndesis Corp.
List Price: $49.95 each
Reviewed By: Douglas J. Nakakihara

Syndesis Avalon CD-ROM gives you a snapshot of the avalon.chinalake.navy.mil Internet site as of July 18, 1994. (If you aren't familiar with Internet sites, it's just like looking at a hard drive with many files and directories.) There are tons of 3-D objects, bitmap texture maps, informational text files, utilities, etc. in various different formats. This ISO9660 CD is compatible with virtually any computer platform.

You'll need an arsenal of decompression programs (particularly one that can handle .z files) to use most of the files. Also, because of CD-ROM filename standards you may have to refer to the manual for the original UNIX filename to determine the compression method used. An object format translation program, like Syndesis's InterChange or Axiom's PixelPro, would also be very helpful, as would a program to translate bitmap image formats. There are some limited translation utilities included, but they are platform specific.

Unfortunately, in a departure from their 3D-ROM series, there are no printed pictures of any of the image or object files. As such you'll have to depend of the index descriptions and filenames for reference unless you want to resort to a file-by-file analysis. However, the files are reasonably grouped by type, format, category, etc. Moreover, this disc is half the price of Syndesis' 3D-ROM volumes, which are bargains in themselves.

Syndesis 3D-ROM


Syndesis Avalon CD

For the price of some downloads you get fingertip access to a great Internet site. (Syndesis Corp., 235 S. Main St., Jefferson, WI 53549. 414/674-5200)

EASY KEYS 1.0

Published By: Blue Ribbon Soundworks LTD
List Price: $39.95
Reviewed By: Mark Will

If you have always wanted to try your hand at composing music but don't have an expensive keyboard, then EasyKeys from Blue Ribbon Soundworks LTD may be the CD you are looking for. It is advertised as having features that can be found on synthesizers costing hundreds of dollars and makes it easy to sound like a "pro" even if you've never touched a musical instrument. You get to decide how much of your own creativity you want to put into composing a given song. In case you discover that you are more musically inclined than you thought, or if you already know, you may want to investigate Blue Ribbon's SuperJam program. This program gives you more choices, has extensive MIDI support, and a demo is provided with EasyKeys.

The interface consists of a picture of a keyboard and is quite intuitive. After spending five minutes with the 30-page instruction manual I was easily able to create, record, and play back fairly complex sounding "songs" complete with sound effects. If you don't like manuals, the help system allows you to bring up a picture of the interface and click on the part you want more information on. One of the most interesting features allows you to assign any WAV file to one of the six "drum pads." While the program is excellent, there are some limitations. The program loads a little slowly and you really only get twenty-five keys to play a melody with (the leftmost twelve keys are chords).

The installation of the program is straightforward and will create a separate program group with ten icons in it. Many of these icons simply explain features more fully or help you understand the entire Blue Ribbon Soundworks product line.

The minimum system requirements include a 386SX or higher, CD-ROM, 2MB RAM, 3MB hard drive space, and a Windows 3.1 compatible sound card. (Blue Ribbon Soundworks LTD, PO Box 8689, Atlanta, GA 31106-9832. 1-800-226-0212)

MICROCOMPUTER ABSTRACTS ON CD-ROM

Published By: SilverPlatter Information
List Price: $495/yr.
Reviewed By: Matthew Leeds

SilverPlatter Information markets research and reference material indexed on CD-ROM. They cover a great number of technical, medical, economic, political, and engineering areas. Each CD uses their search engine, SPIRS. This allows a user of their products to become familiar with a single interface (and install a single engine).

Microcomputer Abstracts covers over seventy-five trade publications, magazines, and professional journals. The material includes references to computer software, hardware, networks, communications, databases, books, industry events, and company information. The abstracts date from 1989 forward, and an updated CD is produced each quarter.

The SPIRS install program provides simple access to the configuration options available. Full consideration has been given to the issues around multi-user and network usage. This makes SilverPlatter products suitable for library, corporate, and university environments.

SilverPlatter offers DOS and Windows versions of SPIRS. A demo CD with the Windows software, a subset of the AIDSLINE database, a DOS-based demo of the Windows software, documentation, and a directory of products are available for the asking directly from SilverPlatter. Their products are not fancy, but if you need the info they've got, they provide excellent indexing and retrieval software. (SilverPlatter Information, 100 River Ridge Dr., Norwood, MA 02062. 617/769-2599. Email: info@silverplatter.com)

continued on page 150

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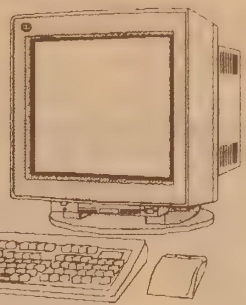

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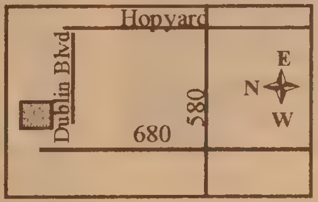

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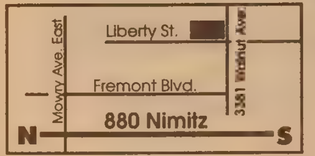

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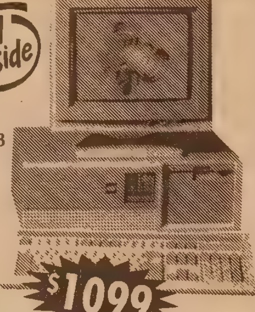

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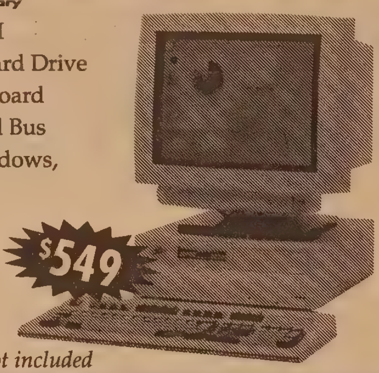

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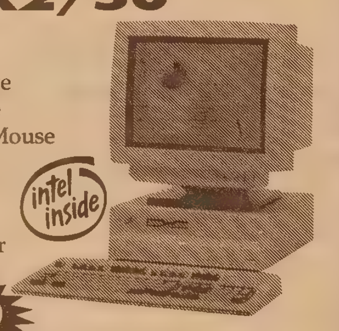

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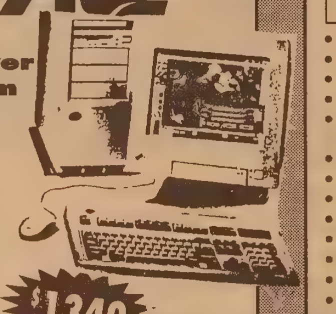

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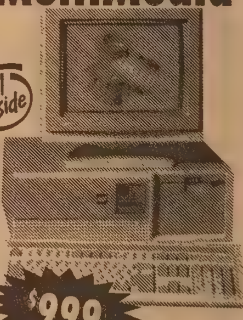

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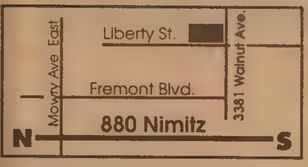

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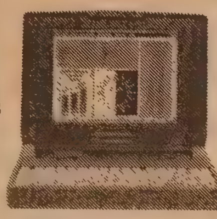

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- Monochrome
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- 2 PCMCIA Type II Slots or 1 Type III
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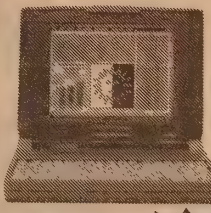
- NIMH Battery Pack
- 512K Video Memory



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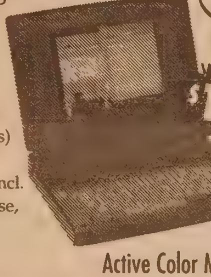

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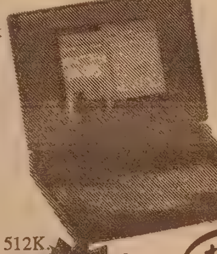
- DOS, Windows



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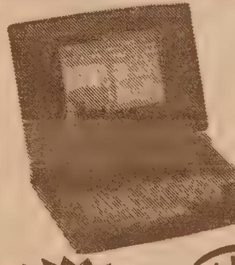

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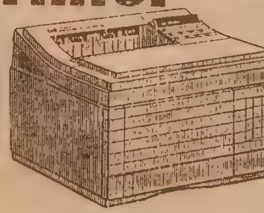

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- MultiMedia w/2X CD-ROM
- 16-Bit Sound Card
- 2 Labtec Speakers
- 14" SVGA Color Monitor
- Built-in Fax

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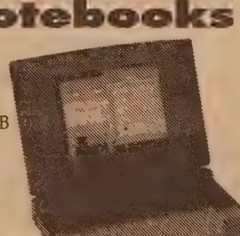

- Intel 486SX/25 Processor
- 4MB RAM Expandable to 20MB
- Local Bus Video; 512K Video Memory
- 120MB Hard Drive
- 3.5" 1.44MB Floppy Drive
- 1 PCMCIA Type III Slot (Compatible with Type II Cards)
- Integrated Trackball
- AC Adapter & NIMH Battery Included
- Includes 1 Serial, Parallel, Mouse, VGA External Monitor, Keypad/Keyboard Ports
- DOS, Windows

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Product Reviews

continued from page 146

communications hardware review

VOMAX 2000

Manufactured By: Macronix
List Price: $425
Reviewed By: Woody Liswood

Vomax, which I speculate stands for VOice—Modem—fAX, all by itself, answers your phone, determines if the call is a voice message, a modem with a file to send, or a fax. Whatever it is, the Vomax takes the information and stores it in internal RAM.

When you are at your computer, you can listen to messages by pressing a button on the Vomax. A set of LEDs tells you if you have mail or faxes. For a fax, you can use DOS- or Windows-based software to download the fax to your PC to view or print.

When you are on the road, the Vomax can be programmed to automatically forward your voice mail and faxes. After receiving the message or fax, the Vomax dials the phone number you programmed in. When it receives the correct password, it plays the voice mail or transmits the fax. If you don't know where you will be, no sweat. The Vomax can be reprogrammed over the telephone.

The 14,400 fax modem is Hayes compatible. I'd had no problems using it with Winfax Pro, Hyper Access for Windows, Procomm Plus for Windows, and Unicom. The Vomax comes with both modem and fax modem software.

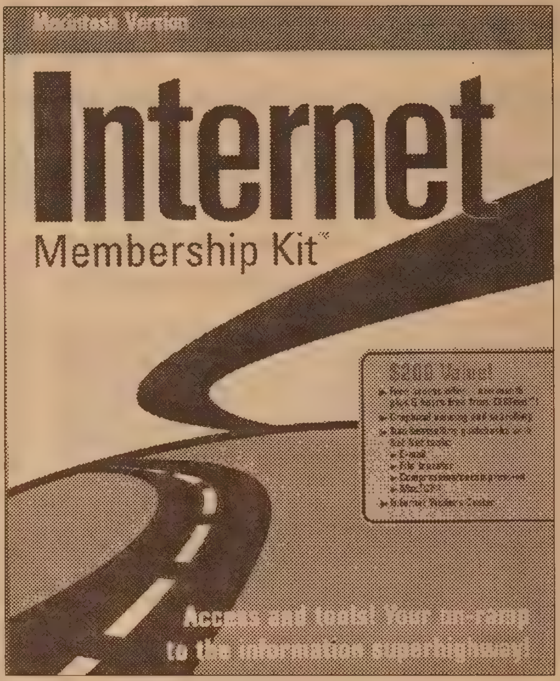
If you have an office, and want to watch your expenses, this Vomax will pay for itself rather quickly because of reduced utility bills—you no longer need to leave your computer running twenty-four hours a day to receive a fax. Plus, if you are pressed for finding another slot for an internal fax modem the Vomax offers a solution. It uses a serial port. This is a great device. (Macronix, Inc., 1348 Ridder Park Dr., San Jose, CA 95131. 408/453-8088)

book reviews

INTERNET MEMBERSHIP KIT—MACINTOSH VERSION

Published By: Ventana Press
List Price: $69.95 (Windows version also available)
Reviewed By: Michael Robin

Being "Directly On The Internet" is different than connecting to cyberspace through a dial-up account on CompuServe, America Online, The WELL, or even your local Internet provider. While each of these online services provides some level of access to the Internet—from simply exchanging email to accessing many of the resources available on the Internet—the actual connection is still somewhat limited.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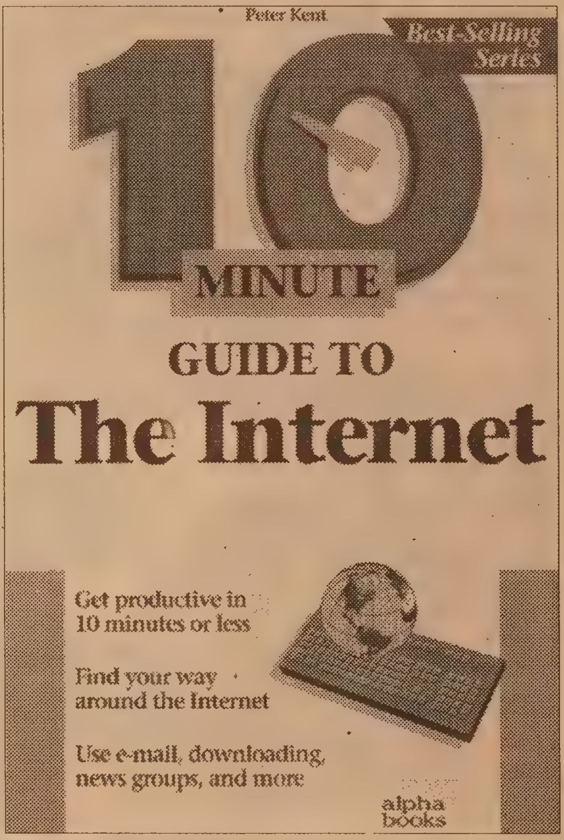
INTERNET MEMBERSHIP KIT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GUIDE TO
The Internet
Get productive in 10 minutes or less
Find your way around the Internet
Use e-mail, downloading, news groups, and more
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10 MINUTE GUIDE TO THE INTERNET

In overly simplified terms, "directly on the Internet" means working from a computer that has a live, direct connection that lets you run—on your computer, not the host that you dial into—TCP/IP-based software. For most of us who are not associated with a research institution, university, or large corporation that has a dedicated, leased line to the net, this means establishing a SLIP (Serial Line Internet Protocol) or PPP (Point-to-Point Protocol) account with an Internet Service Provider (such as Netcom, Delphi, PSI, or CCnet).

The Internet Membership Kit, a book and software package, was created "to help you harness the Net by providing one-stop access and tools that conform to your Macintosh operating system." The book describes what the Internet is, what you can do on it, and how to use the resources and tools you will find there. More specifically, the *Kit* includes a *Read Me First* booklet; *A Brief Guide to Mosaic*; *The Mac Internet Tour Guide*, with a Companion Disk; and *The Internet Yellow Pages*.

The *Tour Guide* presents a brief history of the Internet, provides a general overview of Internet etiquette and usage, and how to use the basic Internet software tools, including email, FTP, gopher, and telnet. The *Yellow Pages* nicely complements this with a wealth of information about what is on the Internet and where to find it.

The Companion Disk includes shareware versions of InterSLIP, for establishing a SLIP connection; Eudora, for email; Fetch, for FTP; NCSA Telnet; Nuntius, a newsgroup reader; TurboGopher; and a licensed copy of MacTCP. There is also information on where and how to download a recent version of NCSA Mosaic, which lets users cruise the Web.

The software is configured for setting up an account with CERFnet. If you already have an account or prefer to use another service, you will need to ask them how to reconfigure MacTCP, InterSLIP, Eudora, and Nuntius. The settings, such as IP and gateway addresses, are specific to each Internet provider.

In the rush to help explain the Internet, there seems to be a new book published almost every month. The *Internet Membership Kit* is one of the very few that combines several books, each written to cover different aspects of the Net, with a suite of software to offer a complete package for the beginner as well as experienced user on the Net. (Ventana Press, Inc., PO Box 2468, Chapel Hill, NC 27515. 1-800-743-5369 or (919)942-0220)

10 MINUTE GUIDE TO THE INTERNET

Published By: Alpha Books
List Price: $12.99
Reviewed By: Kevin Savetz

If you could get productive on the Internet in a few ten-minute lessons, you would, right? That's the hook for the *10 Minute Guide to the Internet*, a terse introduction to what the Internet is, how to get online, and the basics of navigation. It is geared toward users accessing the net by dialing into a UNIX host, and is slanted toward individuals using Microsoft Windows on their home computers.

10 Minute Guide to the Internet does its job and covers the basics of using UNIX, electronic mail, FTP, archie, WAIS, WWW, gopher, telnet, and Usenet. It is divided into twenty "ten-minute" lessons. It is intended for the beginner, and the book does a fair job, considering its brevity.

The first edition certainly has its fair share of typographical errors, some in very unfortuate places. (For instance, the note on how to turn off call

continued on page 165

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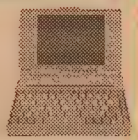

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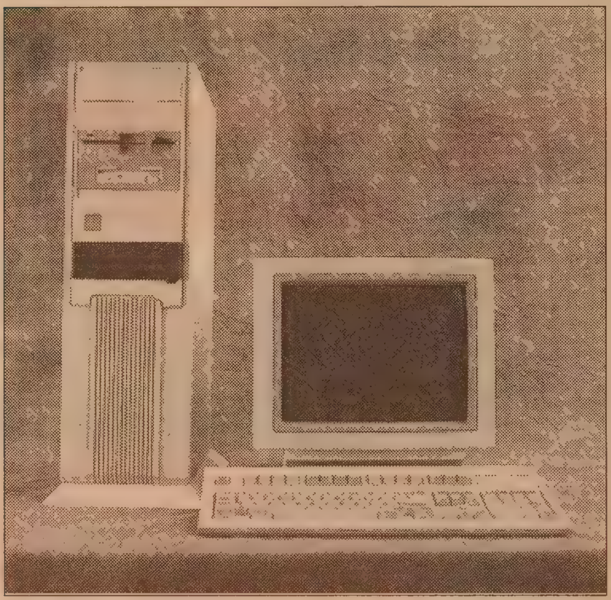

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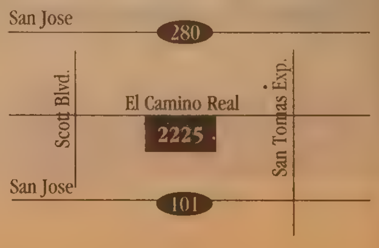

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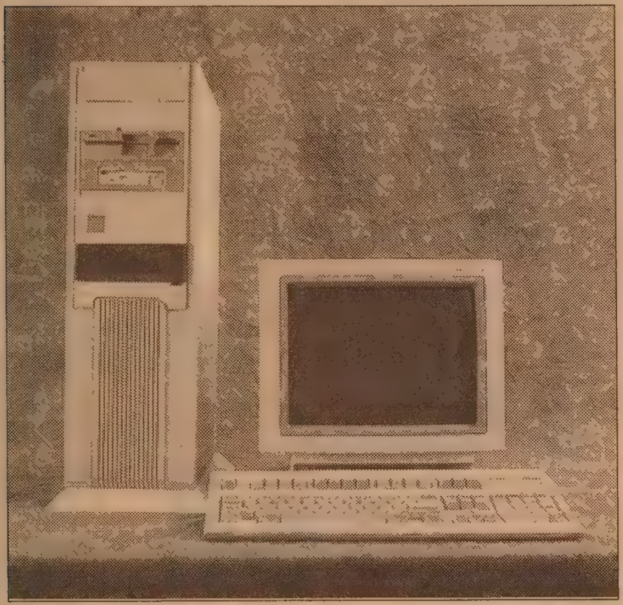

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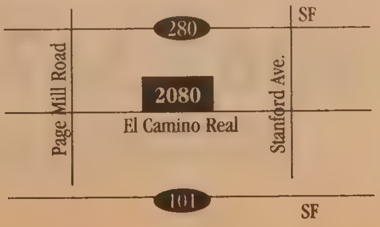

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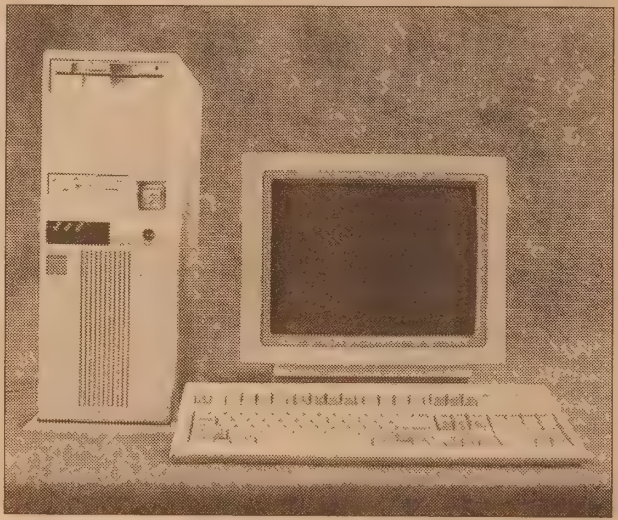

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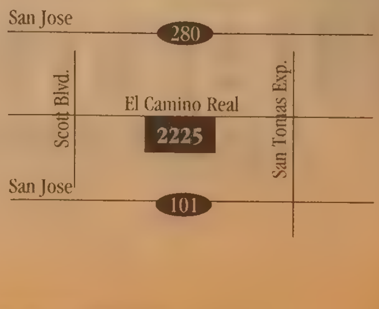

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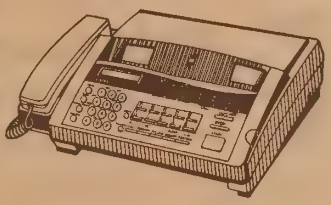

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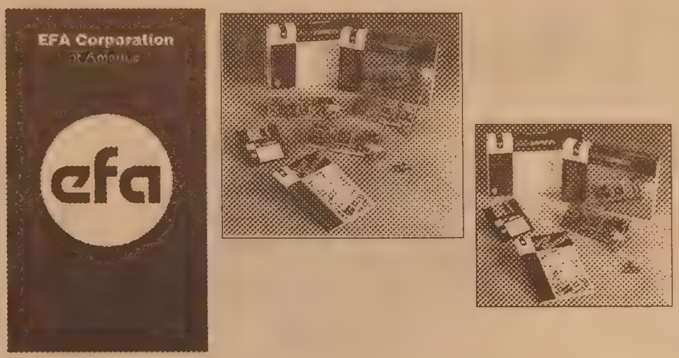

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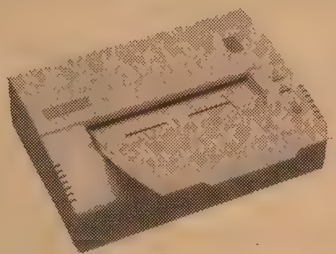

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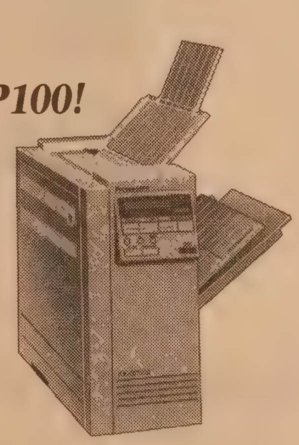

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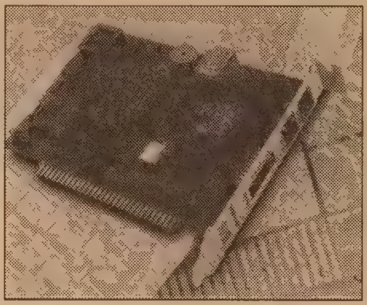

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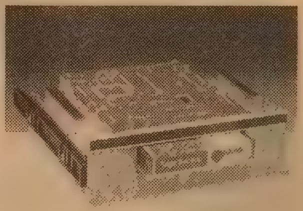

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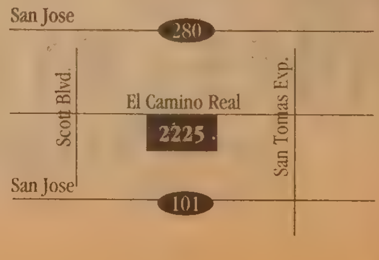

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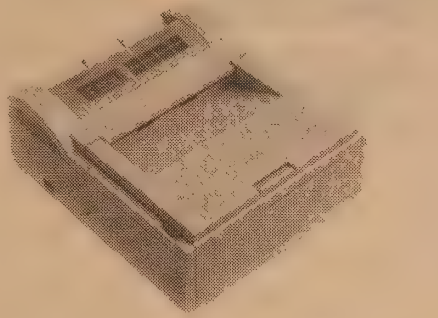

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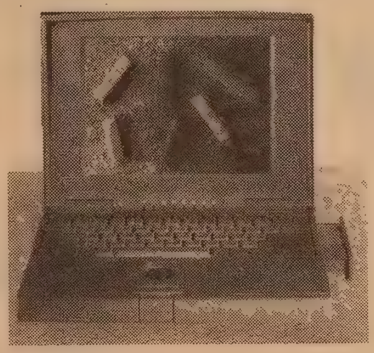

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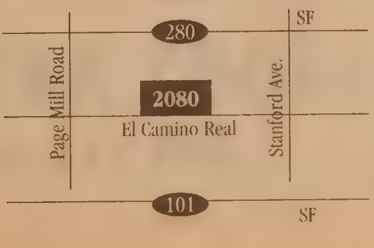

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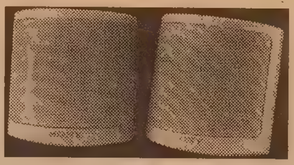

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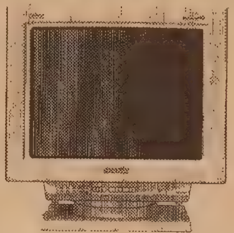

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- 48 nozzles per color
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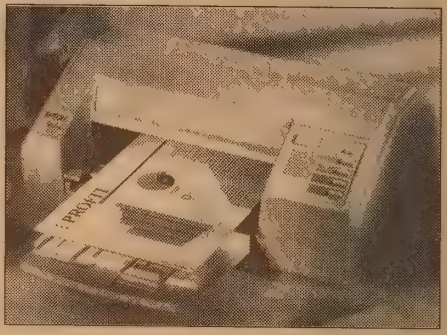

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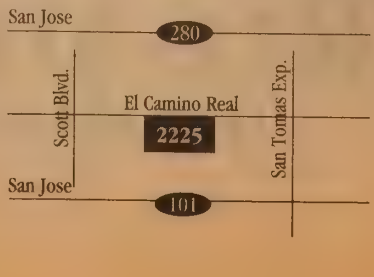

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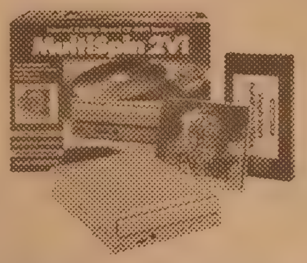

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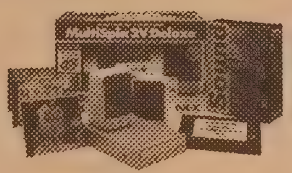

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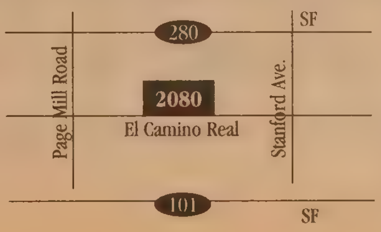

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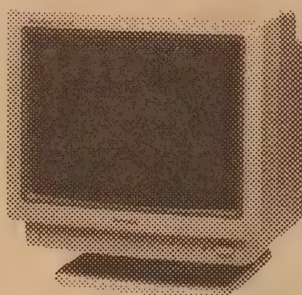

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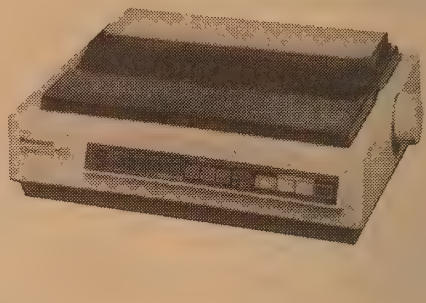

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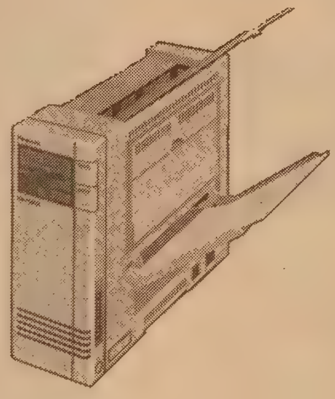

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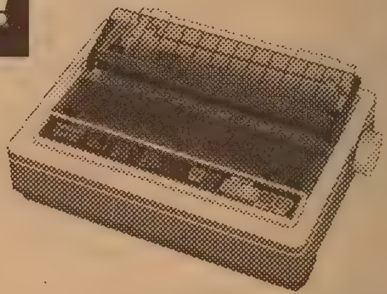

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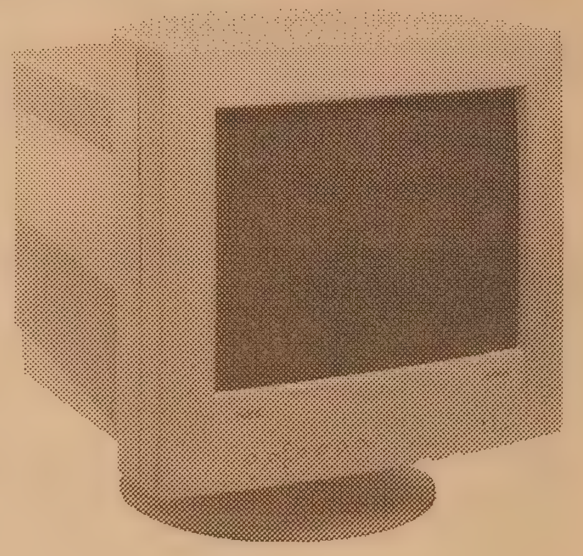

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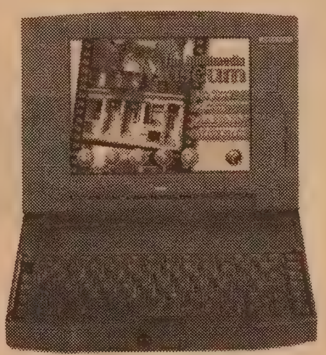

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Microsoft® BallPoint Mouse

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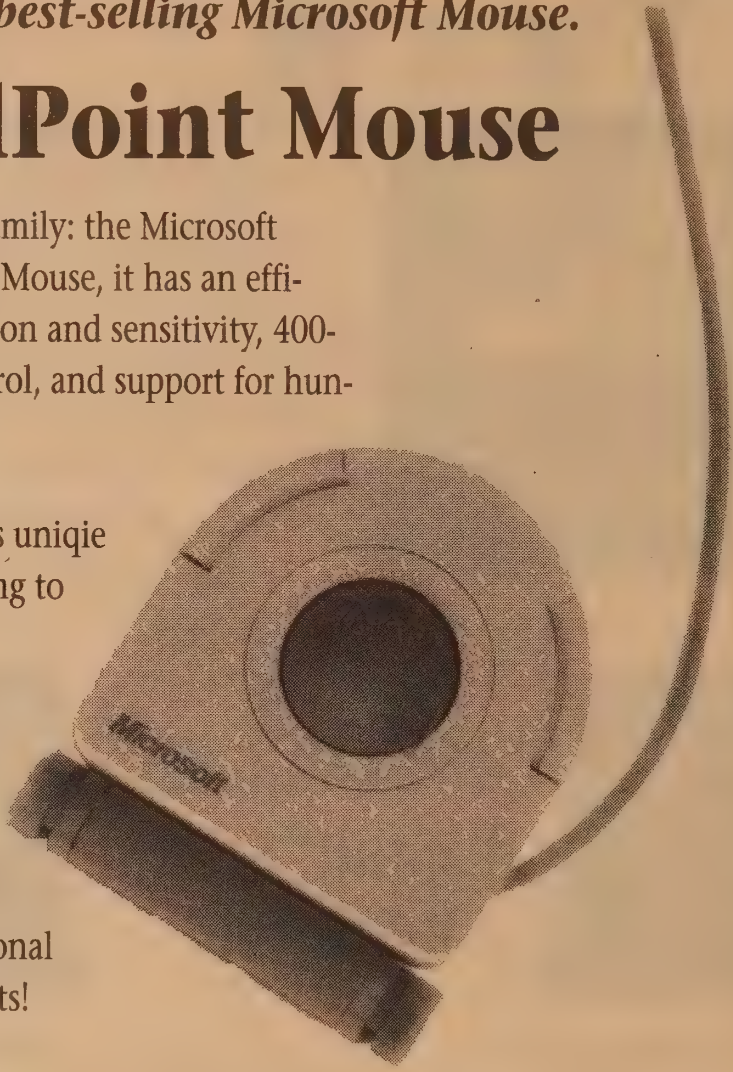
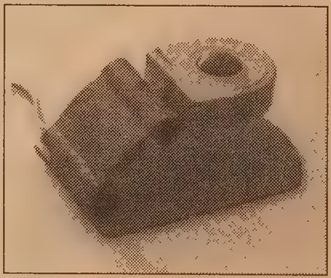


But just one look will tell you this mouse has uniqie advantages. It brings mouse-driven computing to your computer. Set the mouse to the left or right - whatever you prefer. The Ballpoint mouse can also be lowered, swiveled in, out or up to maximize the comfort of your hand.

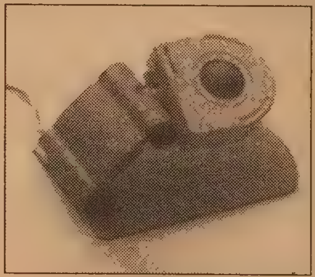
The Microsoft Ballpoint mouse: It's a sensational innovation from Microsoft, the mouse experts!

Ready...

Tilt...



Swivel!



Microsoft® *BallPoint Mouse*

$18⁰⁰

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Microsoft

Product Reviews

continued from page 150

waiting is rendered useless by an errant numeral.)

A person who is already familiar with computers, Windows, and DOS might find this book a helpful tool in the struggle to master Internet basics. It is, however, too short to serve as a thorough introduction. (Alpha Books, 201 W. 103rd St., Indianapolis, IN 46290. 1-800-428-5331)

COOL MAC SOUNDS

Written By: Craig O'Donnell
Published By: Hayden Books
List Price: $24.95
Reviewed By: Kevin Savetz

If you need to stuff the stocking of someone who spends more time at the Mac tweaking the system's sounds than actually working, stuff that stocking with *Cool Mac Sounds.* It's a 300-ish page book brimming with information about making sound with the Macintosh.

Cool Mac Sounds starts with the basics of sound and how computerized sound works. It quickly moves on to the ins and outs of input and output using control panels, HyperCard, F-Keys, and stand-alone applications. It covers all the bases, such as digitized sound, MIDI, and recording sounds yourself.

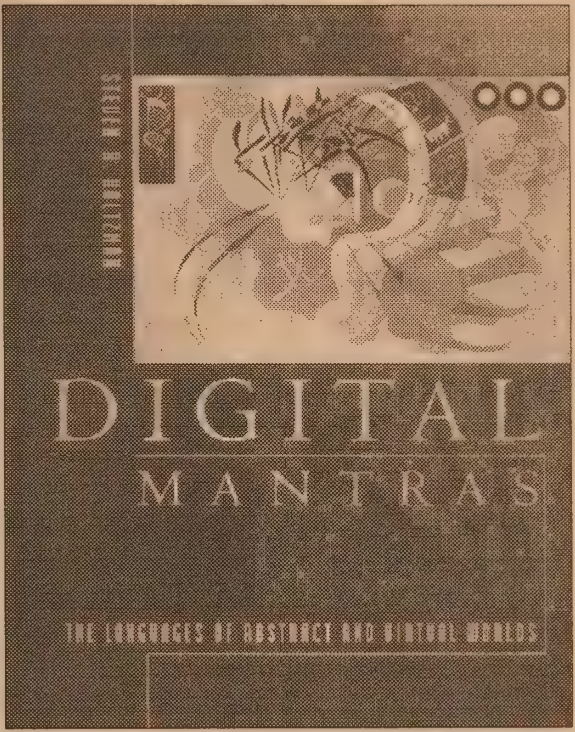
It also includes honest reviews of add-on sound equipment and software. The style is light and readable, although the author does get a bit too technical on occasion.

The book comes bundled with a floppy disk stuffed with audio files: sound utilities and lots of great digitized tracks. The programs and the book range from the useful to the utterly useless. *Cool Mac Sounds* is a winner—you'll be glad you heard about it. (Hayden Books, 201 W. 103rd. St., Indianapolis, IN 46290. 1-800-428-5331. Email: hayden@hayden.com)

DIGITAL MANTRAS

Written By: Steven R. Holtzman
Published By: The MIT Press
List Price: $29.95, companion music CD $16.95
Reviewed By: Pamela Mason

In *Digital Mantras—The Languages of Abstract and*



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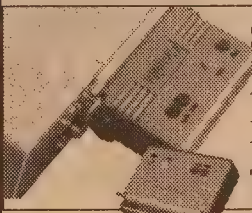

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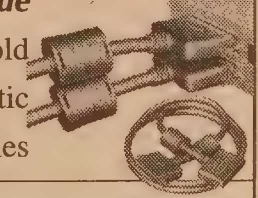

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Product Reviews *continued...*

Virtual Worlds, author Steven Holtzman presents the viewpoint that someday computers will be integrated into the creative process in such a way that they are capable of contributing unique and idiomatic themes of their own. One example is Harold Cohen's Aaron's code, in which Aaron, an artificial intelligence-based computer program, controls a robotic arm apparatus to create art in the form of paintings. Holtzman explores the historical evolution of structures across many disciplines: linguists, musicians, and artists; from the ancient Sanskrit linguists, through Gregorian chants, to linguistic scholar Noam Chomsky, and the purist perspective of Bahaus artist Wassily Kandinsky.

The author explains, "A structuralist view of languages provides the theoretical foundation for designing all of these systems. Such a view will be at the foundation of the virtual worlds of tomorrow. Virtual realities will consist of sounds, visual worlds, perhaps worlds of touch, smell, and taste. Each of these worlds will be created by computer engines driven by rule-governed languages, each with its own grammar."

What comes to mind for me as perfect examples today of his premise of computers as structure and symbol manipulators are Prusinkiewicz's L-grammar-based artificial plant life models and Karl Sim's stunning images that are created with artificial evolution algorithms using mutating symbolic LISP expressions.

Holtzman believes that a paradigm shift is necessary in the creative process itself. "It is probably not yet natural to think of expression in terms of abstract structures." He proposes that until rule-governed systems are used as creative tools, then the integration of computers with the creative process will not be complete.

This book offers a new perspective, a different voice in the digital evolution. With its academic, yet accesible approach, *Digital Mantras* will certainly invoke discussion and healthy controversy with its thought-provoking theories.

A companion music CD, created by the author, is also available. One composition on the CD is called "Machine Music ICL 2970" and is an example of idiomatic digital music derived directly from "listening" to the ICL 2970 mainframe's processor. (The MIT Press, 55 Hayward St., Cambridge, MA 02142-1399. 1-800-356-0343. Email: mitpress-orders@mit.edu)

THE HACKER AND THE ANTS

Written By: Rudy Rucker
Published By: Avon Books
List Price: $20
Reviewed By: Bill Gram-Reefer

Two virtual thumbs up for *The Hacker and the Ants*, Rudy Rucker's recent raucous romp through one possible Silicon Valley reality. Rated R, with adult situations, Birkenstocks, violence, and corporate manipulation of the little guy, Rucker twists together strands from cyberspace, robotics, nanotechnology, genetic engineering, hacking, high-tech hubris, and corporate sabotage into a tightly plotted and often funny misadventure.

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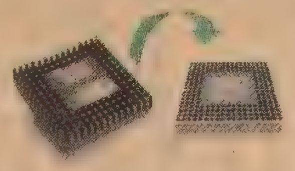

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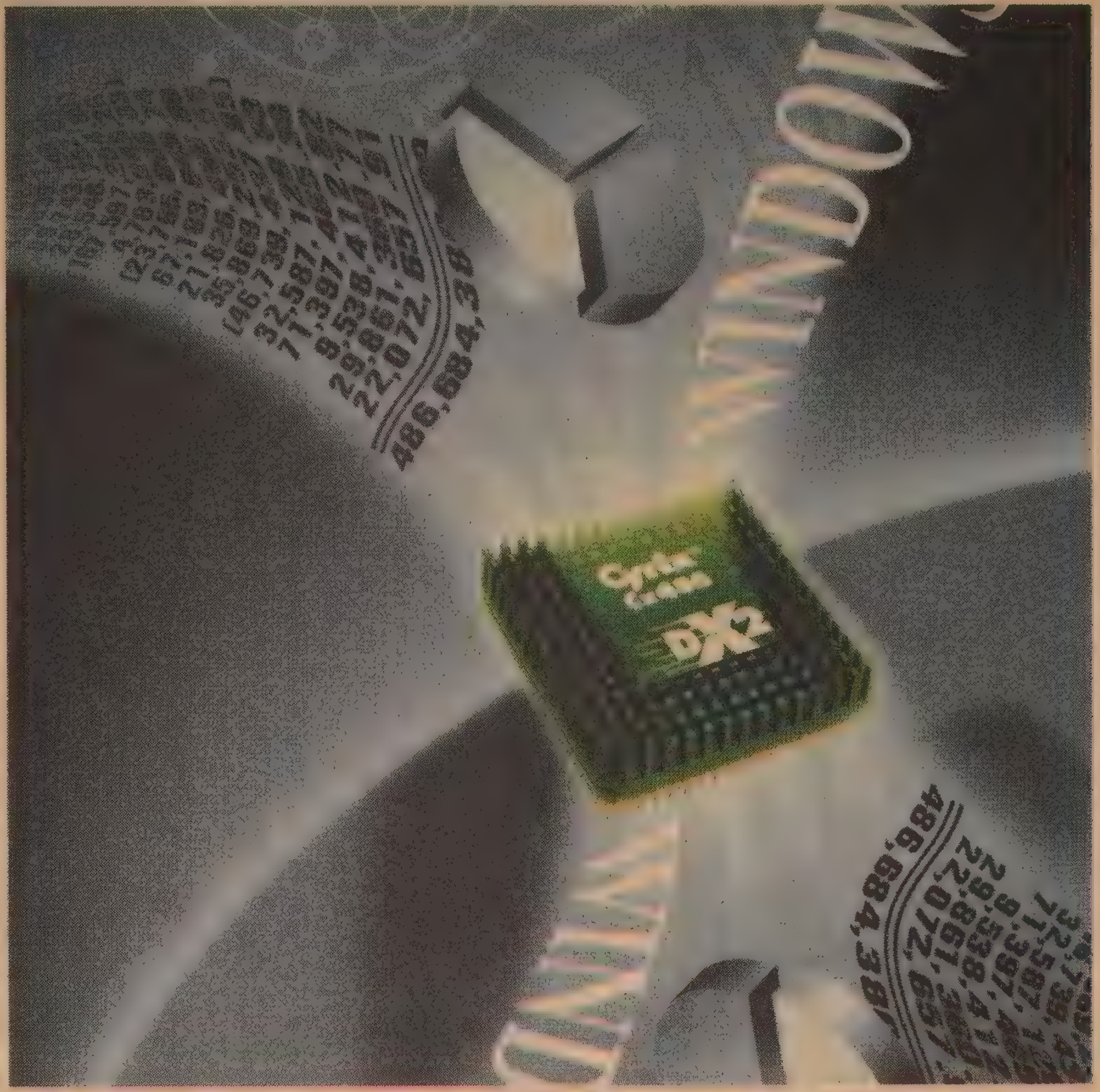

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Product Reviews *continued...*

puter programmer for GoMotion, a fictional company that makes intelligent housekeeping robots, is a perfect patsy for Rucker. Rugby, accused of infecting the worldwide net of computers and television programming with an intelligent, self-replicating virus that appears as ants, loses wife, family, job, and almost his life as he tracks down the secret of the ants and the culprit that set him up for the fall.

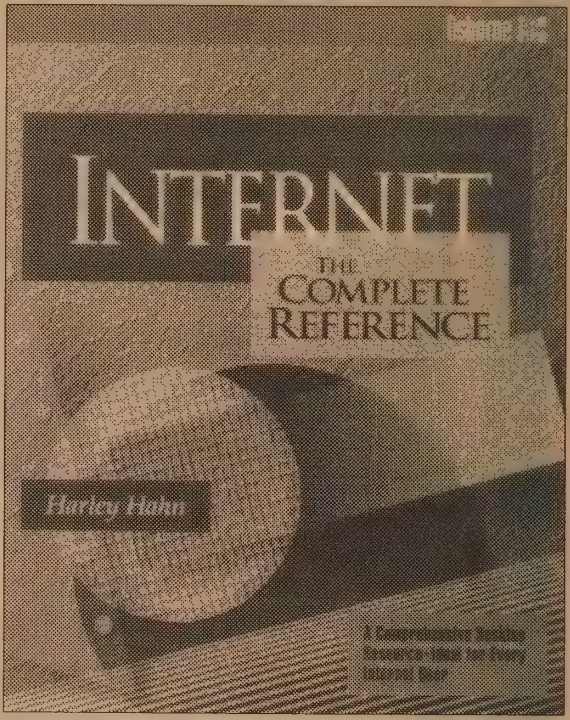
Hacker is full of well-drawn characters and locales including the likes of Riscky Pharbeque, Studly the beta dog, and the Antland of Fnoor. Plus, Rucker's comic entrepreneurial valley setting—where everyone, rich or poor, native or immigrant, is just out to earn a buck anyway they can, like the real estate lady moonlighting as spy and talent agent—pulls the plot along despite Rugby's raging hormones, vulgarity, and officious sounding mysticism.

Breaking the mold, Rucker's geometrically correct if not completely original sketches of cyber-based groupware, virtual mall life, and dark dreams provide an interesting fix on how normal people in Santa Clara County might someday interact with an ubiquitous network. And because he refused to include a streetwise juvenile bike/skateboard messenger Rucker proves he's no slave to current cyberpunk literary fashion. (Avon Books, 1350 Avenue of the Americas, New York, NY 10019. 1-800-238-0658)

THE INTERNET COMPLETE REFERENCE

Authors: Harley Hahn and Rick Stout
Published By: Osborne/McGraw-Hill
List Price: $29.95
Reviewed By: Kevin Savetz

The Internet Complete Reference is a grassroots guide to learning about the Internet. It takes the clueless Internet newbie and leads him or her from the fundamentals—like understanding what the Internet is, how to connect, and how addressing works—through the Internet's most important tools: telnet, email, Usenet, FTP, gopher, WAIS, Internet Relay Chat, and so on. This book doesn't cover any ground that hasn't been trod dozens of



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intel inside

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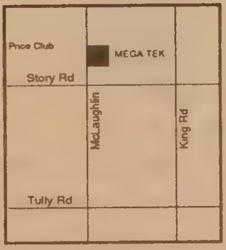

times before by other everything-you-need-to-know-about-the-Internet books, but it delivers the information in a lively, always interesting manner. No topics are glossed over—the authors do a fine job of explaining how to use software such as archie, rn, trn and tin newsreaders, electronic mail, FTP, and many others. Hahn and Stout never get mired in the dirty technical details, but they do explain what to do and how to avoid trouble.

The Internet Complete Reference is intended for folks who will be accessing the Internet using a UNIX command line prompt. If you will be using SLIP (Serial Line Internet Protocol) or PPP (Point-to-Point Protocol) or a VAX you will still find about half this book useful.

The book also includes a 150-page catalog of Internet resources (which for all the world looks like it was culled from another Hahn and Stout masterpiece, the *Internet Yellow Pages*), a useful listing of Internet service providers, and a list of Usenet discussion groups.

This review boils down to this: If you are just trying to get started on the Internet, but don't know which of fifty step-by-step books in your bookstore you should buy, *The Internet Complete Reference* won't disappoint you. (Osborne/McGraw-Hill, 2600 Tenth St., Berkeley, CA 94710)

INTERNET STARTER KIT FOR MACINTOSH SECOND EDITION

Written By: Adam C. Engst
Published By: Hayden Books
List Price: $29.95
Reviewed By: Bill Gram-Reefer

If Infobahn and Autobahn are the same to you—someplace you'll never cruise along at breathtaking speed—then Adam C. Engst's update to his best-selling first edition will get you revved up and headed tire-screeching in the right direction toward the nearest on-ramp of the super-duper information highway. For once again Engst, editor of the popular online TidBITS, has delivered a truckload of concise and useful information within about one thousand pages, and included a high-density diskette with the (mostly) shareware software you'll need to hotwire your journey into cyberspace.

Like the first edition, the best part of this users' manual is the chapter on how to set up and run the licensed or shareware TCP-based Mac software that comes free on the diskette. This section also includes updated reviews and evaluations of top programs from the standards to the not-quite-there-yet concepts fresh from the skunk works. The FAQ (frequently asked questions) section on topics such as MacTCP, InterSLIP, and PPP will save you hours of headache. Also included are reports on online services, Mac BBS packages, and commercial software. The *Internet Starter Kit* also provides tips and tricks from the pros on mundane topics—like how to read a UUCP mail header—to truly inspired tinkering—like when a flamer goes on and on, just reply "you may be right!" Finally, the trunk is packed with *usable* appendices.

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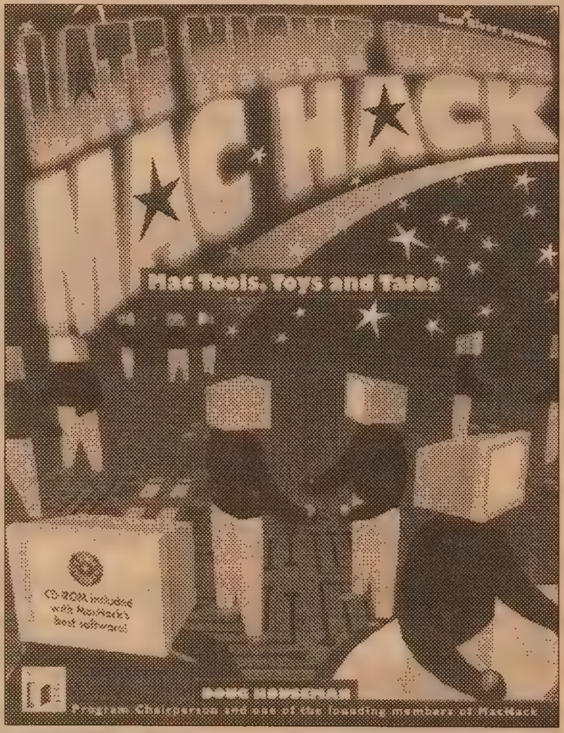
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DOUG HOUSEMAN
Program Chairperson and one of the founding members of MacHack

LATE NIGHT WITH MACHACK: MAC TOOLS, TOYS AND TALES

There is no upgrade path from the first edition. So if you have the first one, give it to a friend or the school's library, and get the new one for yourself. (Hayden Books, 201 W. 103rd. St., Indianapolis, IN 46290. 1-800-428-5331. Email: hayden@hayden.com)

LATE NIGHT WITH MACHACK: MAC TOOLS, TOYS AND TALES

Author: Doug Houseman
Published By: M&T Books
List Price: $29.95 (includes CD-ROM)
Reviewed By: Kevin Savetz

What happens when you shove a few dozen of the brightest hackers in a hotel for a few days; give them plenty of caffeine, computers, and electronic gadgetry; and tell them not to come out until they've done something interesting? The MacHack Conference. Each year, three hundred of the top Macintosh programmers meet for MacHack, an infamous gathering in which amazing things happen to the Macintosh computer.

Late Night With MacHack chronicles what happened at nine of these annual events of hackerdom. It does a fantastic job of showing us the culture of Mac hackers, the behind-the-scenes development of the Macintosh—and (best of all) the results of the work. This book tells of hundreds of fantastic tools and toys that have been developed at the MacHack conferences. Not only that, but it delivers most of the applications (many with source code) along with a look at the people who were at the events on one overstuffed CD-ROM. If you're a Mac person, you need this book.

The goodies in the book (and on the CD-ROM) range from the useful (programs to replace the Chooser and add hierarchical menus to System 7), the offbeat (such as instructions for controlling your computer via a TV remote control), and the downright weird (including the famous NetBunny and NetWarmer, a control panel for heating your coffee right from the Mac). There are also lots of nifty hacks for programmers as well as an explanation (but no source code) of software that makes the Macintosh operating system work on a Sega Genesis.

In addition to programs and source code, the CD-ROM contains 440MB of QuickTime movies. Most of these are from video taken at MacHack. Some are mundane walk-arounds at the event; others are hilarious excerpts from the awards ceremonies. (For example, one video clip is a demonstration of DylanTalk, a cool hack that would read the text of dialog boxes in the programmer's voice. This was a year or two before Apple included this type of capability as standard equipment on high-end Macs.) Other QuickTime movies include some Apple television commercials, cool rendered graphics, as well as clips of Dan Quayle making a fool of himself. I'm not too sure what that is doing there, but why not? From beginning to end, *Late Night With MacHack* conveys the essence of hacker ingenuity and fun. (M&T Books, a subsidiary of Henry Holt and Co., 115 W. 18th St., New York, NY 10011. 212/886-9200)

OS/2 2.11 UNLEASHED

Written By: David Moskowitz, David Kerr, et al.
Published By: SAMS Publishing
List Price: $39.95
Reviewed By: Lenny Bailes

If you're an OS/2 user and frustrated with IBM's sparse printed documentation, this book is for you. It is a huge compendium (more than twelve hun-

continued on page 250

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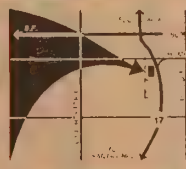

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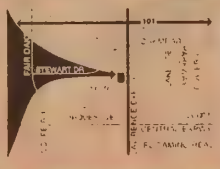

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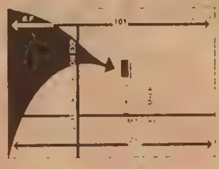

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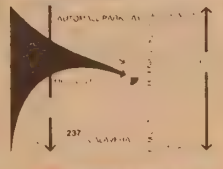

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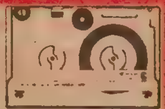

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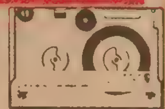

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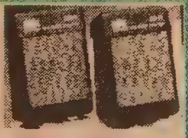

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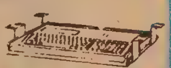

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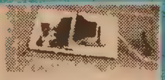

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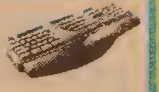

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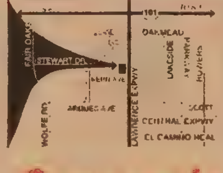

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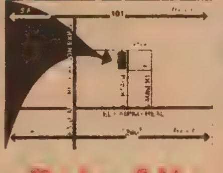

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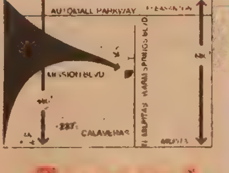

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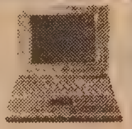

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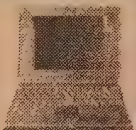

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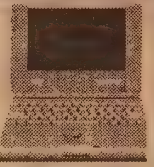

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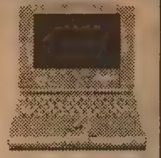

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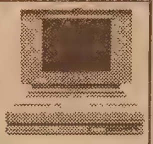

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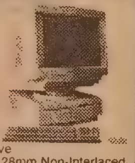

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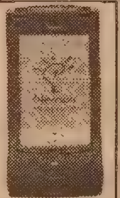

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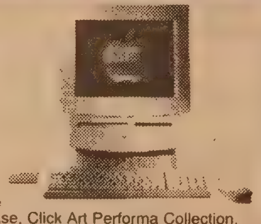

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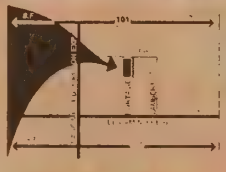

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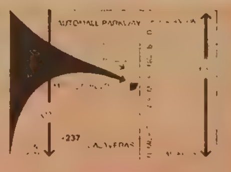

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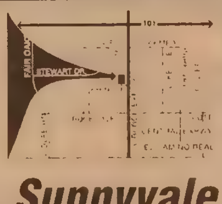

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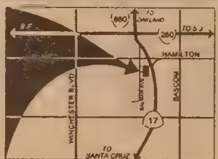

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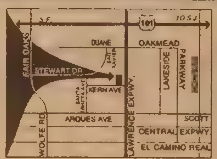

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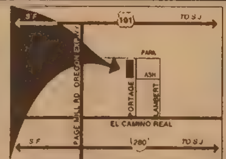

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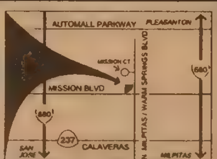

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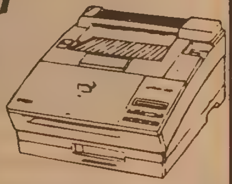

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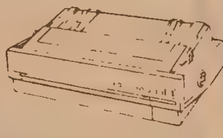

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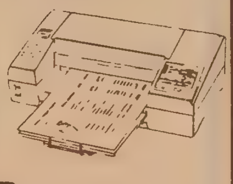

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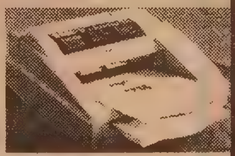

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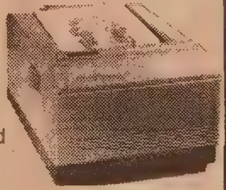

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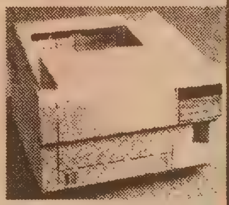

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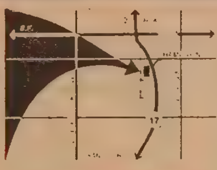

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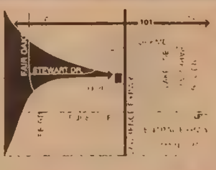

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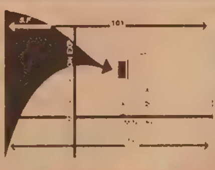

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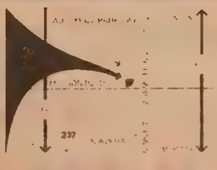

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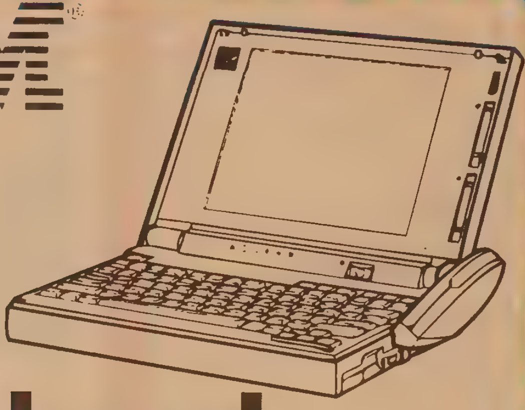

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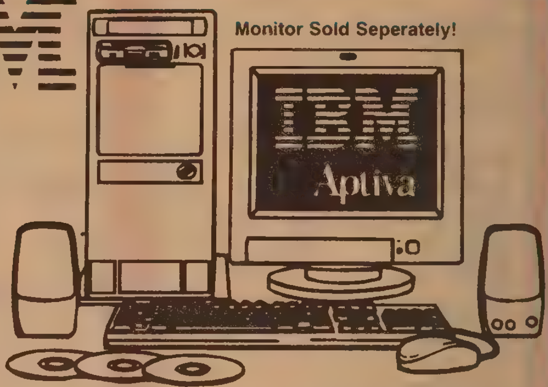

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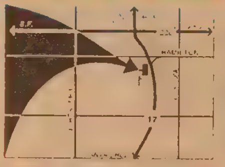

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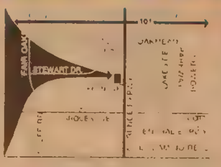

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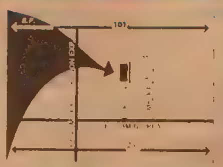

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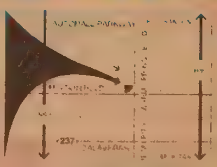

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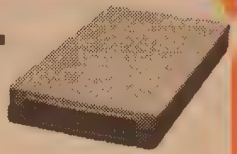

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BITCOM and BITFAX S/W • Supports up to Com 7 and IRQ-9
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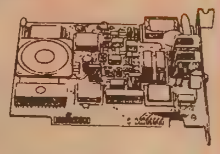

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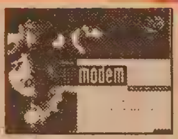

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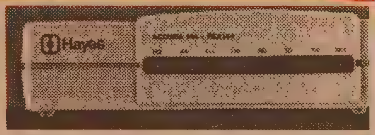

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- Group 3 Fax
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- Cables included

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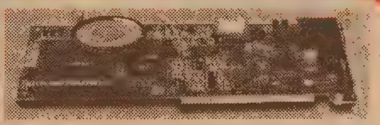

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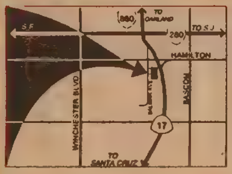
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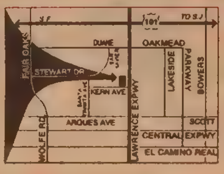
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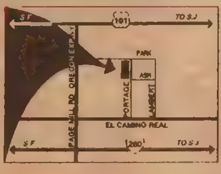
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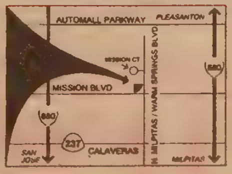
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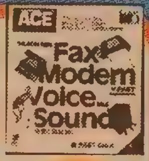
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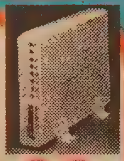

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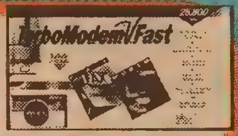
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28,800

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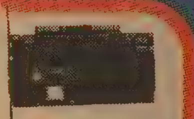

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- v.42bis, V.42, V.17 Protocols • MNP 5
- Supports Class 1 and 2
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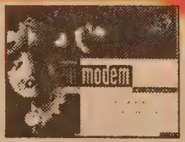

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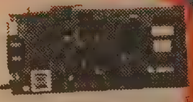

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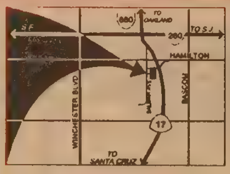
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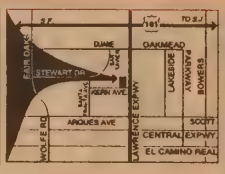
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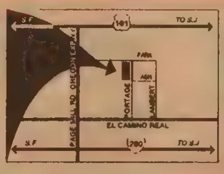
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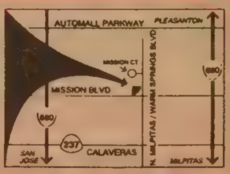
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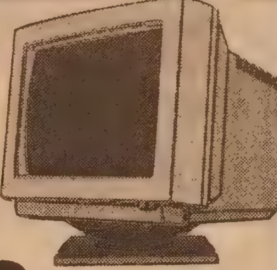

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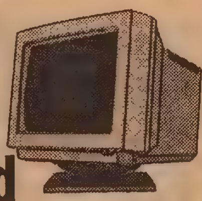

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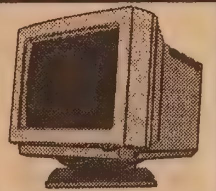

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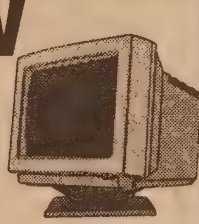

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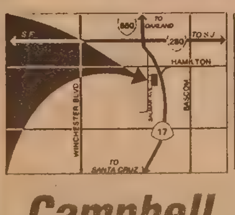
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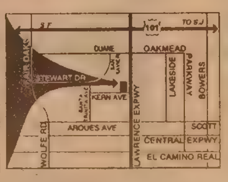
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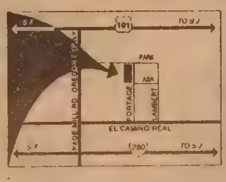
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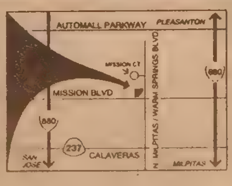
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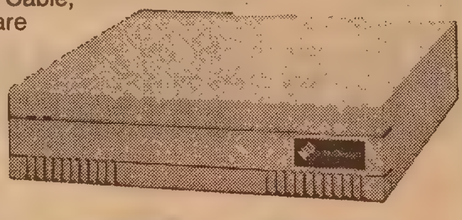

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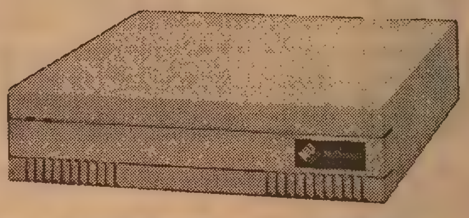

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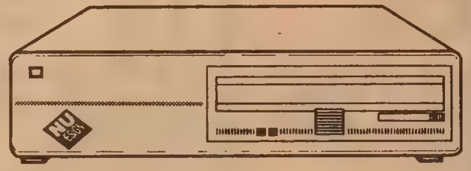

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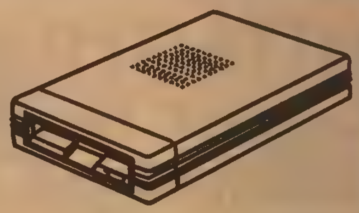

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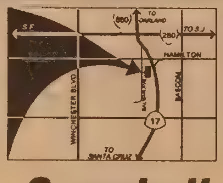
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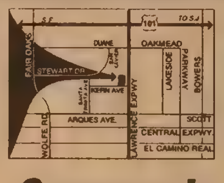
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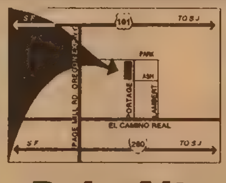
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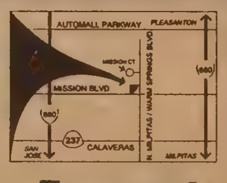
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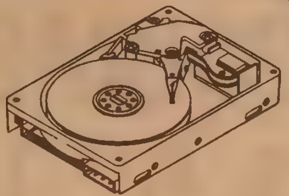

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2 Year Warranty • 128K Cache
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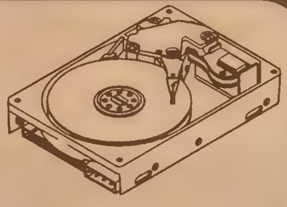

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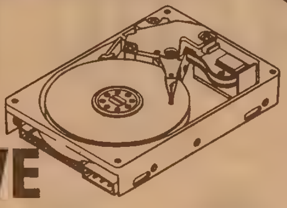

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- 1/2 ht.
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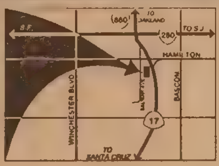
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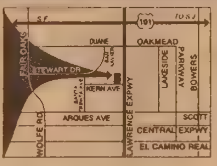
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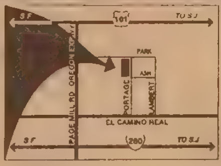
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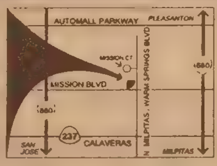
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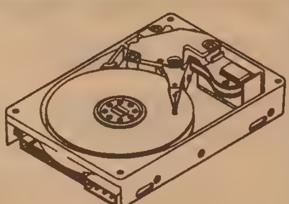

3.5" IDE Hard Drive 1" Ht. • 13ms Average Access Time
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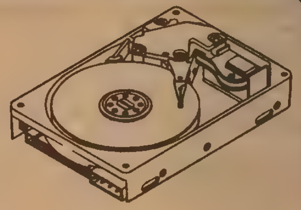

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SHD3122A #1786011

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290MB IDE HARD DRIVE

MAXTOR 7290A
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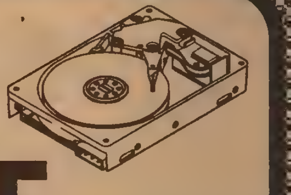

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1" HT. • 15ms Access Time • 345MB Formatted Capacity
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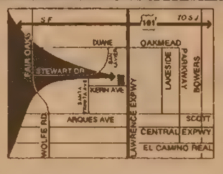
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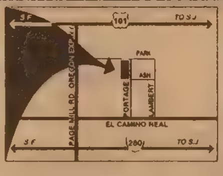
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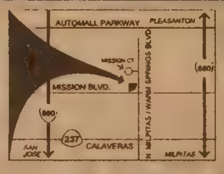
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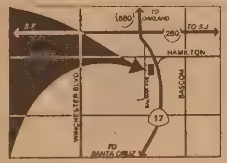
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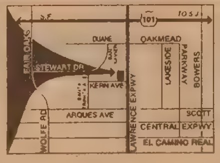
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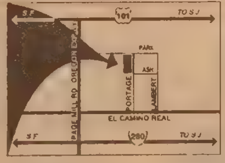
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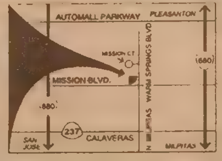
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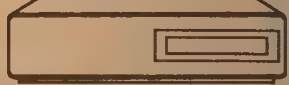

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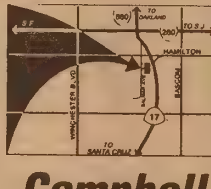
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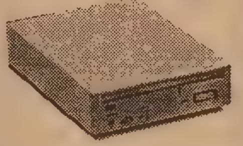

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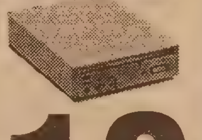

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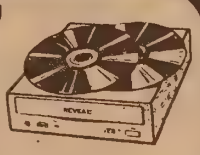

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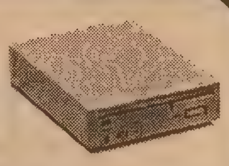

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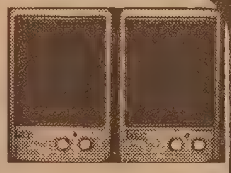

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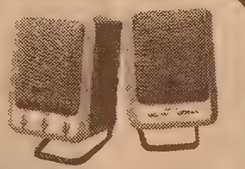

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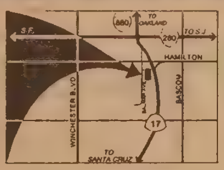
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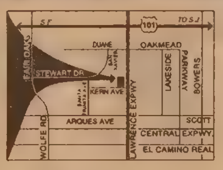
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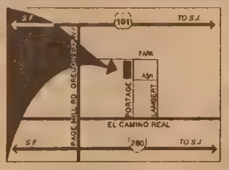
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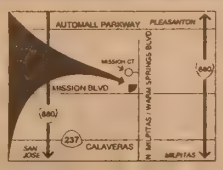
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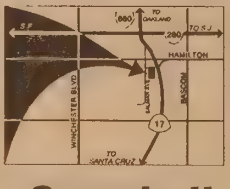
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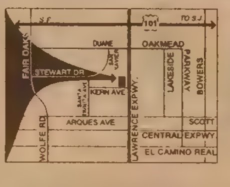
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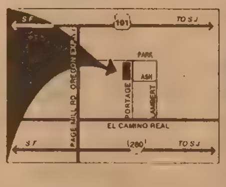
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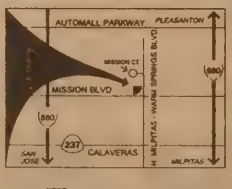
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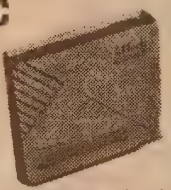

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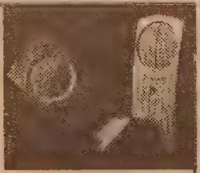

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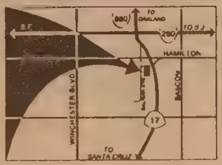
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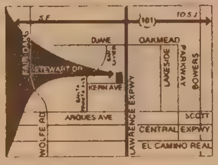
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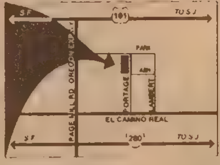
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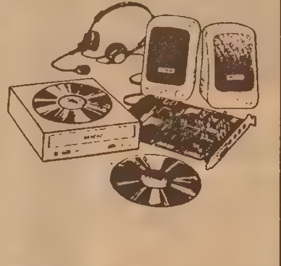

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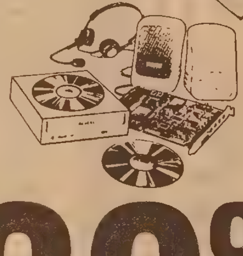

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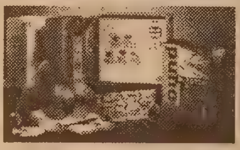

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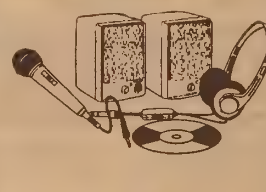

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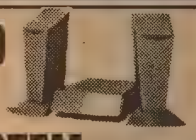

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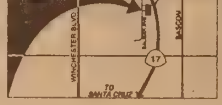
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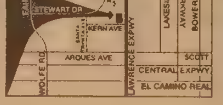
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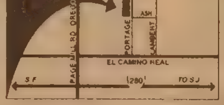
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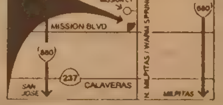
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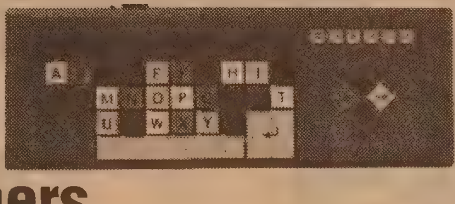

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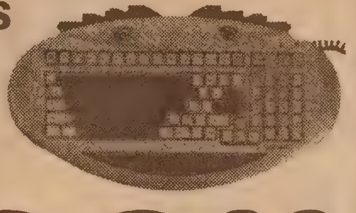

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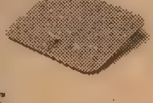

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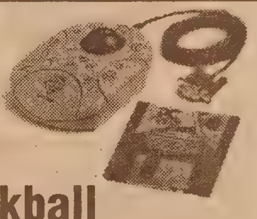

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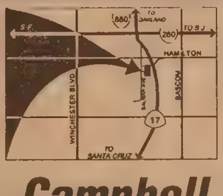
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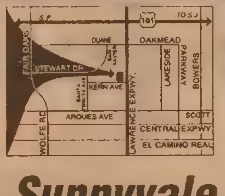
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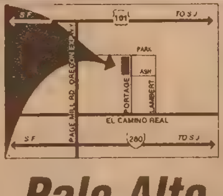
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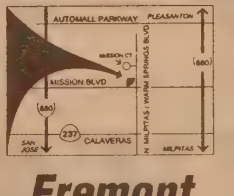
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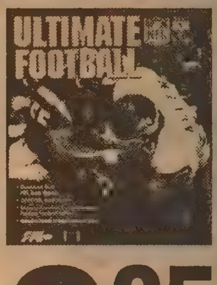

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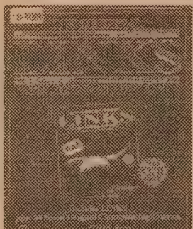

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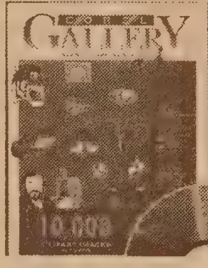

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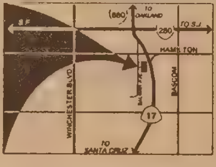

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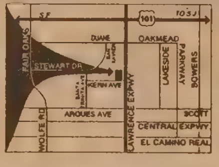

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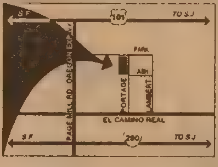

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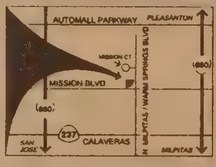

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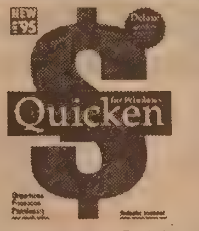
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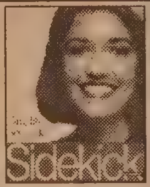

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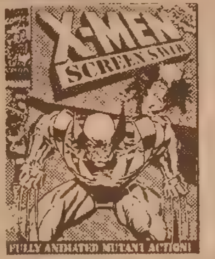
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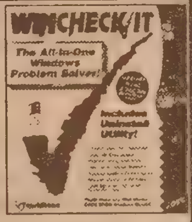
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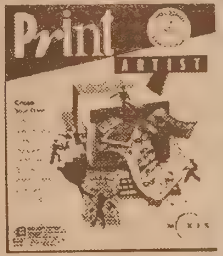
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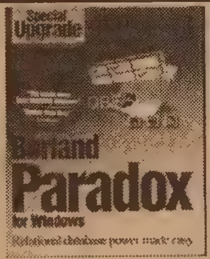
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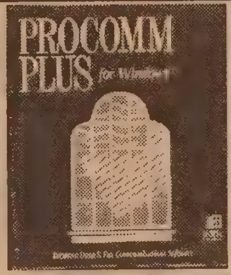
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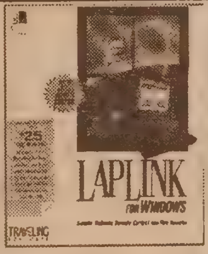
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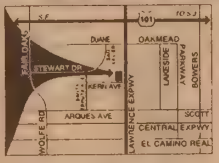
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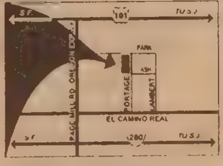
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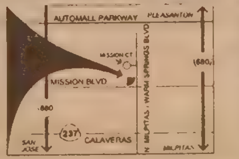
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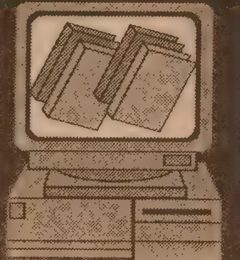

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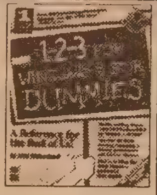

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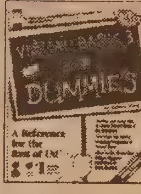

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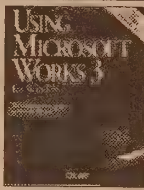

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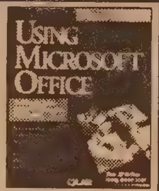

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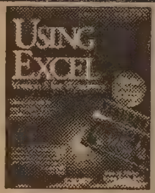

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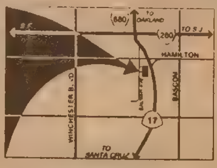

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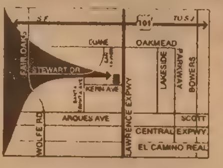

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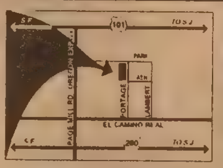

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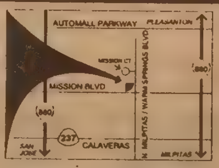

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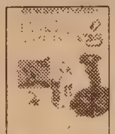

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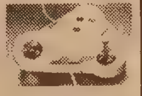

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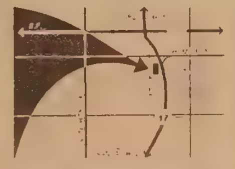

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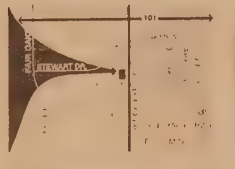

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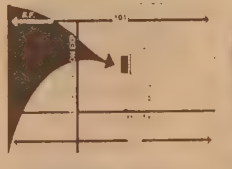

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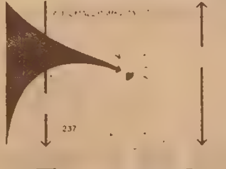

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HOME AND AWAY SURGE PROTECTOR

Home and Away Surge Supressors are specifically designed for maximum protection at Home (Computers, Fax/Modem, Home Entertainment and Audio/Video needs) and Away applications (Portable Computers, Fax/Modems, etc.)

$14 99

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Computer Products

#1957495

6-OUTLET BASIC METAL SURGE PROTECTOR

$4 99

UL listed 15 amp • 150

#1938238

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- 5-outlet surge protector
- 5 individually lighted controls
- Lighted master on/off switch

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A Subsidiary of SL Industries, Inc

AVOID SYSTEM MELTDOWN

6-OUTLET SURGE PROTECTOR

PM6SP2 • 140 Joules
Noise Filtering • Five Year Warranty

$5 99

#1840885

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210 JOULE 6-OUTLET METAL SURGE PROTECTOR

EMI/RFI noise reduction
5 Year warranty $250
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6-Outlet Wall Plug Surge Protector

$2 99

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TRIPP LITE

SUPER 7

- 18,000 Amp Suppression
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And Diagnostic Indicators which Alert You To:

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$17 99

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COMPUTER SUPPLIES

6-OUTLET, 3-LINE SURGE SUPRESSOR

Protects Valuable Equipment!

EMI/RFI Filtering reduces static
Lighted On/Off switch • Indicator Light • 125 Volt-15 Amp Circuit Breaker • Maximum surge dissipation 177 Joules

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Suppresses Surges up to 120 Joules
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PlatinumColor
6-outlets

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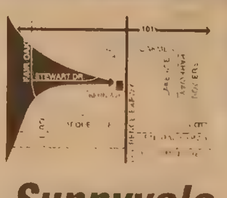

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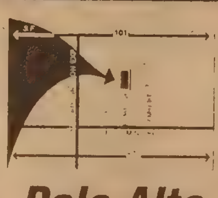

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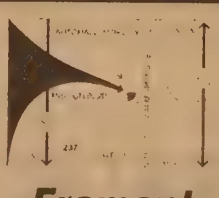

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THE WORLD'S BEST FAX MACHINES

THE WORLDS BEST FAX MACHINES

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THERMA PLUS PAPER

FAX MACHINE

WITH PAPER CUTTER

ACS ANTI-CURL SYSTEM

Brother's breakthrough fax machine incorporates newly developed therma plus technology which uses fax paper that feels like plain paper and reduces print fading (lasts 3 times longer than thermal paper under normal filing conditions, and you can even use a highlighter!). Other features include, 10 page document feeder, 15 station memory, 16 level grey scale, activity report, polling and much more for only...

$279

Model
FAX-620
#1896510

brother

THERMA PLUS PAPER

FAX MACHINE

WITH PAPER CUTTER & 32 LEVEL GRAYSCALE

ACS ANTI-CURL SYSTEM

From Brother the high tech home office leader come this feature laden fax machine with 32 level grayscale for enhanced contrast reproduction, 60 station memory, 10 page auto document feeder, anti-curl mechanism, smoothing, multiple resolution transmission, 16 digit LCD display, activity report, Polling, next fax reservation, and much more. Now just....

$299

Model
FAX-640
#1917437

brother

THERMA PLUS PAPER

FAX MACHINE

WITH 1MB MESSAGE CENTER & PC LINK CAPABLE

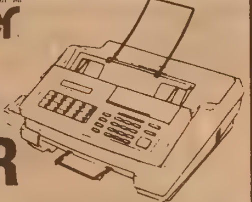
ACS ANTI-CURL SYSTEM

Brothers revolutionary fax machine offers a digital message center for either18 minutes of recording, up to 50 page of memory for out of paper reception, or you can configure the storage memory to be usedon a first come first serve basis. The optional missing link will allow this fax machine to act as a PC/fax modem, a scanner, and a printer! Other feature include anti-curl system, uses ThermaPlus paper, quick-scan, 164' paper roll capacity, 15 page document feeder, auto cutter, sequential broadcasting, and 60 number memory just to name a few.Now only...

$399

Model
FAX-820
#1925195

brother



PLAIN PAPER FAX

WITH 256K MEMORY

Brother's done it again! Last year Brother broke the $400 price barrier in paper cutter Fax, and for an encore, Brother has destroyed the $799 stand alone plain paper Fax barrier with this unbelieveable value. Its 200 sheet paper cassette, 30 page auto document feeder, on-screen programming, "smoothing" enhanced image resolution, 48 digit LCD display, multiple resolution transmission, 32 level grayscale, 160 station memory, and Fax/Tel Switch makes this the best value you will find at only.....

$599

Model
FAX-980
#1801828

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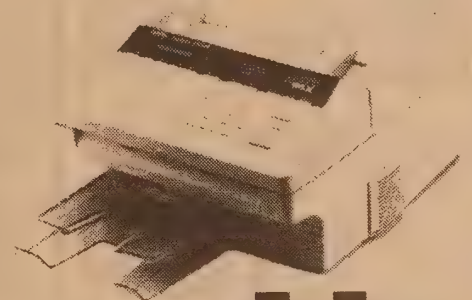

PLAIN PAPER LASER FAX AND COPY SYSTEM

WITH PC LINK CAPABILITY

missing link

Brothers state-of-the-art Laser fax machine combines laser print quality with copier capabilities of up to 99 continuous copies along with reduction and enlargement capabilities, and PC Link capability enabling you to utilize the laser fax machine as either a Scanner, PC/Fax Modem, or a printer! Other features include 256k memory for out of paper reception or sequential broadcasting, 30 page document feeder, 200 page sheet paper tray, 140 station memory, 32 level gray scale, and much much more! The best home office investment you will ever make at just...

$899

Model
PPF-2500
#1925173

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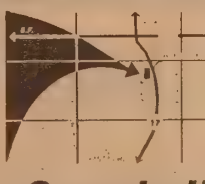

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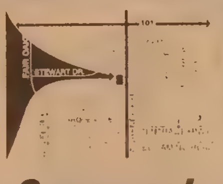

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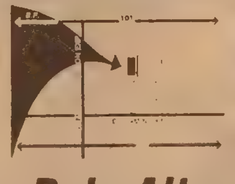

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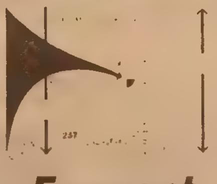

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ORGANIZERS

SHARP

34K PERSONAL ORGANIZER

Perfect for the business person on-the-go, this compact data bank incorporates a 14 x 3 line display, built-in calendar, schedule, phone /memo, memo pad, expense, clock, anniversary, and calendar functions as well as QWERTY keyboard to simplify data entry. Once you've used this electronic marvel, you won't leave your home or office without it.

$49.95

Model YO-110
#1741872

CASIO

B.O.S.S.

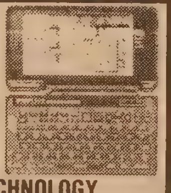
WITH 128K MEMORY

This business organizer scheduling system comes packed with powerful functions that are practical and easy to use. The QWERTY Keyboard, telephone directory, calendar, memo function, schedule alarm, world time function, home time function, and schedule keeper will prove to be an invaluable tool in keeping your busy days in order. An excellent investment at...

$119.95

Model SF-7900
#1956818

SHARP



512K PERSONAL ORGANIZER

WITH TOUCH SCREEN TECHNOLOGY

This Sharp Wizard lets you leave your portable computer at home but puts the power of that computer in your pocket! Here's a small sampling of the innovative features. Touch screen technolog ywhich allows you to write or draw on the screen using the Wizard pen, filer which organizes related data into folders that can be transferred to another touch screen Wizard via infrared, and a true word processor with a large screen display and a keyboard that's 75% the size of a standard PC key board The possibilities are endless at only...

$329

Model OZ-9600 II
#1797152

PALMTOP COMPUTERS

PSION SERIES 3

POCKET SIZED 512K COMPUTER

WITH BUILT-IN SPREADSHEETS

Psion has redefined the state of the art in hand held computers with the new Series 3. It may be small, but this pocket-sized programmable computer comes equippedwith features found in desktop machines plus powerful built-in software, including a full specification word processor and outliner that's compatible with Microsoft word. When using the Series 3 you will quickly learn from the system of graphic displays and option list how easy the Series 3 is to use. And with Psion's unique Multitasking Operating System, as many of the facilities as you want can be used at the same time! Other features include an automatic phone dialer, world information, a time and personal management file, powerful graphics programming language (OPL/w) which will enable you to write your own applications and two expansion ports for plug in SSD devices for unlimited memory and software.

$399

Model SERIES 3A
#1843567

HEWLETT PACKARD
Authorized Dealer

1MB PALMTOP COMPUTER

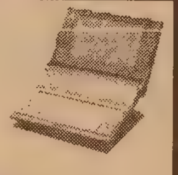
WITH 80x25 FULL SCREEN MS-DOS 5.0 & BUILT-IN POCKET QUICKEN

The smallest, lightest HP PC ever comes equipped with complete organizer software to manage your time, tasks and data, plus you can retrieve information instantly with a full range of built-in personal productivity tools. The pull-down menus and dialogue boxes make it simple to master the familiar commands, and the high-resolution display with zoom option is easy to read ! With Lotus 1-2-3 built-in you will have full spreadsheet capability, including graphics and macros. Also includes CC:Mail built-in. Now only...

$549

Model HP-200LX
#1941670

OMORON



1.9 lbs. SUB-NOTEBOOK

RUNS ON 4 AA BATTERIES UP TO 10 HOURS

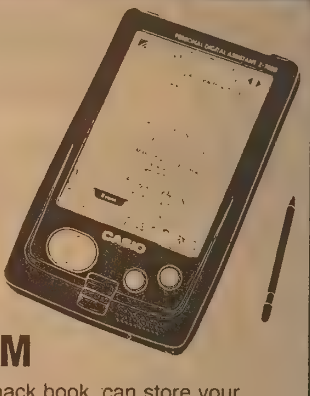
2MB RAM • 2MB ROM • 2 PC MCIA Type II Slots Fax/Modem Built-In • Serial/Parallel • 640 X 400 Resolution Preloaded Software: DR DOS • Bitfax LapLink XL • BitCom DataSel Gold • Contact Manager.
AA batteries not included By OMRON.

$599

Model TOUCAN
#1809653

PERSONAL COMMUNICATORS

CASIO



PERSONAL DIGITAL ASSISTANT

DOS COMPATIBLE WITH GEOS OPERATING SYSTEM

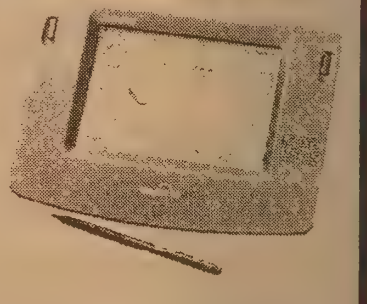
Now an amazing device, no bigger than a small paperback book, can store your hand written notes and sketches, arrange your calendar, keep track of hundreds of phone numbers and addresses, help organize your personal finances, perform complex mathematical calculations, give you easy access to electronic mail and a host of sophisticated on-line information services. With up to 100 hours of operation from 3AA Alkaline batteries, and S-RAM or Flash card compatibility, the versatility and performance of this PDA is unmatched at only...

$399

Model Z-7000
#1815308

SONY

Magic Link



PERSONAL INTELLIGENT COMMUNICATOR

A revolutionary concept in electronics which integrates the most useful features of personal computers, telephones and pagers in a handheld, portable unit. By incorporating Magic Cap™ communicating applications platform and Telescript™ technology, the Magic Link™Communicator represents a leap forward in the use of technology to enhance your lifestyle. Features include integrated Fax/Data Modem built-in mic/speaker, Pocket Quicken, PenCell Spreadsheet, Spell Finder, Datebook, Notebook, Calculator, File Cabinet, mind game software, and much more. Magic Link™ will also facilitate various modes of communication including Phone, E-mail, Fax, Pager and Infrared, as well as supporting AT&T PersonaLink℠ Services and America Online service.

$899

Model PIC-1000
#1959305

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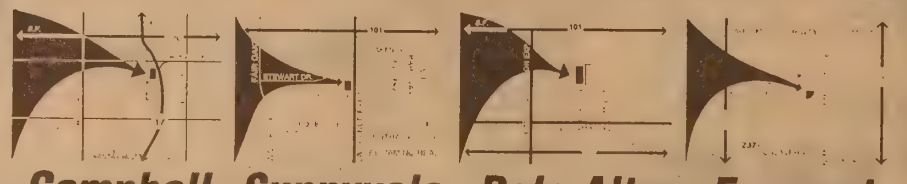

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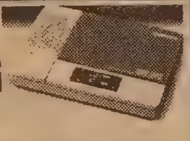
ANSWERING MACHINES

Panasonic

ANSWERING MACHINE



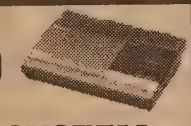
Answering System with Auto-Logic Operation, Tone Remote Control, Digital Display, Message Memo Recording and remote turn on, Auto-Logic Operation automatically rewinds, plays messages, stops at the last message and resets itself at the touch of one button.

$39.99

Model KX-T1000
#1498194

Panasonic

DUAL MICRO CASSETTE ANSWERING SYSTEM



Panasonic's new dual micro cassette answering system offers an LCD Call Counter, marker message, room monitor, auto disconnect, electronic auto disconnect, electronic volume control, audible message alert, and much more for only...

$69.95

Model KX-T2100
#1740208

Panasonic

DUAL MICRO CASSETTE ANSWERING SYSTEM WITH VOICE TIME/DAY STAMP

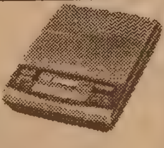
Panasonic's new dual micro cassette answering system offers an LCD Call Counter, marker message, room monitor, auto disconnect, electronic auto disconnect, electronic volume control, audible message alert, and much more for only...

$89.95

Model KX-T2300
#1740219

Panasonic

TWO LINE ANSWERING MACHINE WITH VOICE TIME/DAY STAMP



Perfect for the home or office, this Panasonic two line answering machine offers voice time/day stamp, voice prompts, 2 variable greeting messages, room monitoring, message alert, call screening, auto interrupt, toll saver, and more. Now just...

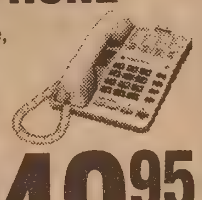
$129.95

Model
KX-T5300
#1768084

BUSINESS PHONES

Panasonic

SPEAKERPHONE



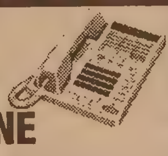
For the office or home, this phone has all the features you need. It has a speaker phone, 28 station automatic dialer, automatic redial and much more.

$49.95

Model KX-T2315
#1530100

Panasonic

TWO LINE SPEAKERPHONE



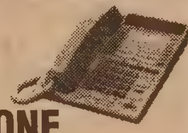
A perfect compliment to your home or office, this two-line speakerphone comes equipped with 3-way conferencing, 20 number programmability, seperate ring switches for each line, and a local mode function. Now only...

$69.95

Model KX-T3120
#1510676

Panasonic

2-LINE SPEAKERPHONE WITH LCD DISPLAY



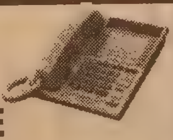
From Panasonic comes this fully featured 2-line speakerphone with LCD display, 3-way conference call, volume control for speaker and handset, 24-station one-touch dialer, auto redial, flash, separate ringer tone, line status indicator, memo dial, and save redial, all for only...

$89.95

Model KX-T3175
#1745122

Panasonic

THREE LINE SPEAKERPHONE WITH LCD DISPLAY



From Panasonic comes this fully featured 3-line speakerphone with LCD display, 3-way conference call, volume control for speaker and handset, 48-station one-touch dialer, auto redial, flash, separate ringer tone, line status indicator, memo dial, and save redial, all for only...

$169.95

Model
KX-T3185
#1768039

10 CHANNEL CORDLESS PHONES

Panasonic

10 CHANNEL AUTOSCAN CORDLESS PHONE

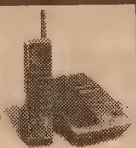
This cordless phone comes equipped with a retractable flexible rubber antenna sound charger technology, which helps filter out background noise resulting in enhanced sound quality, and 1-way paging between the base and handset. An excellent value at only...

$79.95

Model KX-T3850
#1764839

Panasonic

10 CHANNEL CORDLESS PHONE WITH QUICK CHARGE & SECURE GUARD SYSTEM



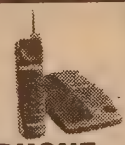
Panasonic has developed the latest in cordless technology by incorporating a Quick Charge system that will enable you to recharge its battery in one hour providing 7-day standby or 3 hours providing 21-day standby! The Secure guard system can help keep your conversations private and help prevent eavesdropping scanners or baby monitors. Other features include one paging, 10 number memory, last number redial, flash, auto security code settings and much more for only...

$118.95

Model KX-T3940
#1820915

Panasonic

10 CHANNEL AUTOSCAN CORDLESS DUAL KEYPAD SPEAKERPHONE WITH SECURE GUARD VOICE SCRAMBLING



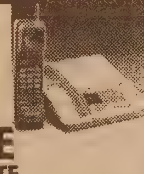
Panasonic's comes equipped with secure guard which scrambles your voice when others try to listen in on your conversations with other cordless phones, radios or even scanners! Other features include quick charge technology enabling to fully charge the battery in only 3 hours for 21 day standby, 2-way paging, intercom, 10 number memory, high gain antenna, and much more. All for only...

$159.95

Model
KX-T3965
#1886160

Panasonic

10 CHANNEL CORDLESS SPEAKERPHONE WITH DUAL MICROCASSETTE



This top of the line cordless dual microcassette answering system with sound charger technology delivers sound so clear, you will hardly believe your ears! Some of the features included are: 2-way paging, intercom, auto security system, message alert, 2-way and memo recording just to name a few. Now only...

$199.95

Model
KX-T4400
#1802450

FAX MACHINES

Panasonic

FAX MACHINE WITH PAPER CUTTER, SPEAKERPHONE AND ALL DIGITAL ANSWERING MACHINE

Panasonic line of fully featured fax machines start with this compact model which includes 64 level grayscale, super thermal paper compatible, paper curl reduction, 164' paper roll capacity, 15 page document feeder, distinctive ring, delayed transmission, paper save mode, telephone directory with alpha-search, 12 station one-touch with 28 station speed dialing, and much more. All for just...

$349

Model
KX-F750
#1944282

Panasonic

PLAIN PAPER FAX MACHINE WITH 20 PAGE MEMORY

The ultimate plain paper fax from Panasonic features a jumbo LCD display, 70 page paper cassette, adjustable letter/legal tray, 32 level halftones, polling, activity reporting, 20 page document feeder, broadcasting to 128 locations, fax transfer, enlargement and reduction copier functions, fax/tel switch, 28-station one-touch dialer, 100-station speed dialer, telephone directory with alpha-search, and much more! Now just.....

$799

Model
KX-F3000
#1850626

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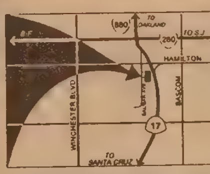

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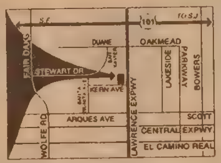

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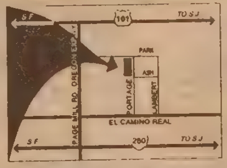

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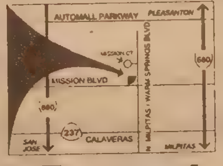

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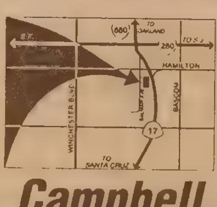

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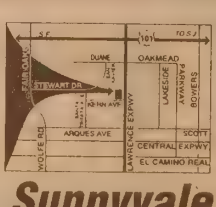

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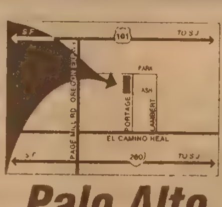

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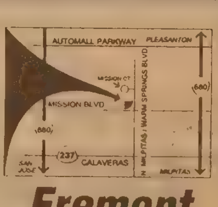

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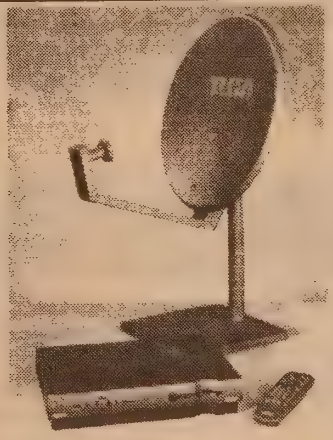

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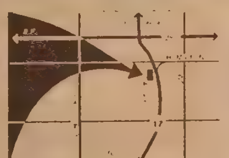

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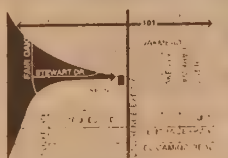

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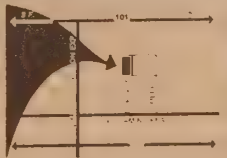

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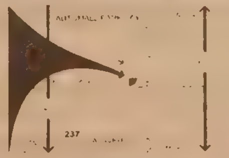

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Neil Young

continued from page 32

So you can be in the train as it goes around.

Yeah, and you can watch your own trackwork, feel yourself going over the tracks you laid, and see the signals and respond to them. Reach out with your glove and change the controls on the cab. Look out the window all the way around and see a stereo picture while you're moving on the track.

I think that's possible before the year 2000. It's possible now, but possible and affordable is what I'm talking about.

There's a lot of things happening in the virtual field. All that work's being done for us right now. By the time it gets to the stage where we can use it, it'll hopefully be cheap enough to interface it with a little digital stereo camera and mount that in the headlight of the train. Or in a couple of other lights, one on either side. And have your virtual cab.

Then the inside would look just like the train you were in—you could get a package of cabs, so you were inside locomotives, and adjust what type they were, and what road name they were, and everything. The paint would change. Some of them would be old, and some of them would be new—you could get into that.

How would you do this—would you get a separate software package and have the camera feed to your computer screen, or what?

I don't know—I'm sure there would be a computer involved in the interface somewhere.

There's some speculation that computers will essentially disappear in favor of single-purpose devices that have far more compute power than our desktop machines today, but we won't think of them as computers, we'll think of them as toasters, or VCRs or something. Do you see that happening with trains?

You mean like computers you wear? Where it's no longer in the state that it's in now?

Like computers doing everything, but not necessarily saying, "I'm a computer."

Well, we're kind of started along that way now with what we've got going, but at the smallest, most basic level. We've got the microchips onboard—everything happens onboard, and you just control it. The effects happen there, and they're all controlled from there, and the trains are all really smart. They know what you've told them, and they don't forget it.

I don't know, really, how we could do the virtual cab.

Cross the bridge when you come to it.

Yeah. There's other guys.

There's just the fact that I want to do it, and I know what I want it to look like. I know that the effect would be awesome. You could build an environment that would look good from the track, and building it in itself could take years. But then you could put on your glasses and ride down the track while controlling the vehicle, and look out the windows.

To me, that would be awesome.

At Silicon Graphics they have simulators that do some of this now. But again, you need megabucks. You don't just go down to Wal-Mart and buy one for Christmas.

No, and it's not real-time live either. They're sitting in one area, right, and they're simulating your ride, where you're going?

The difference with this is, this is real-time. You are riding. You're looking

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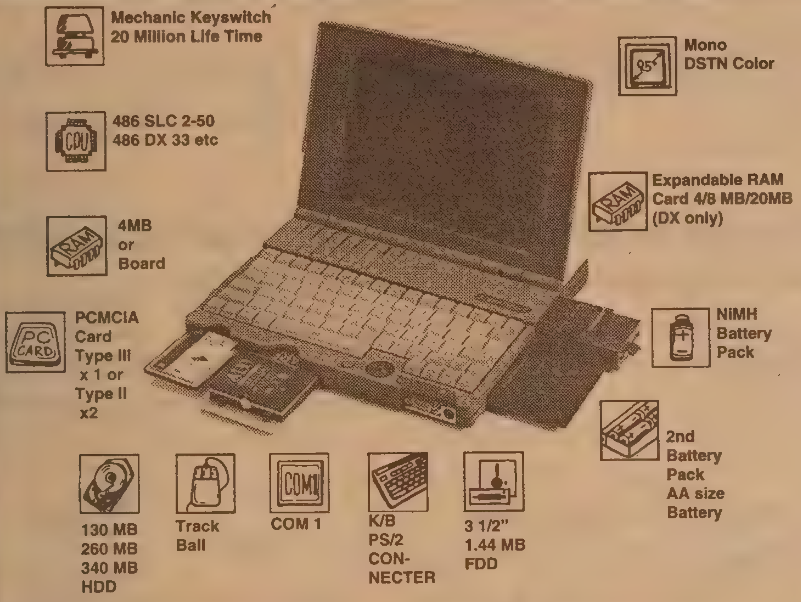
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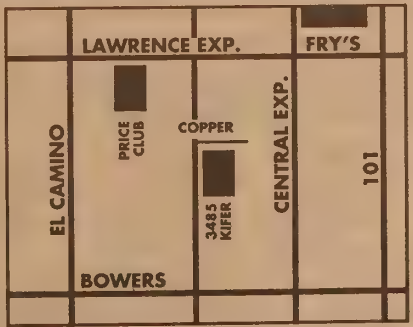

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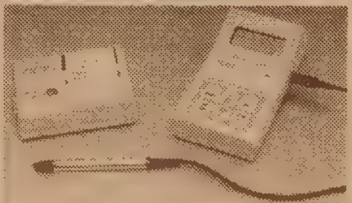

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Neil Young *continued*

through the window and the thing's going down the tracks. It's not going down some tracks that have been programmed in there; you're going down the tracks, and it's a live picture.

Well, in one of their simulations, you can drive on the road, but you can also fly.

Oh wow...

You can move the controller and go in any direction you want. You can get the view from Neptune, or the view from the street corner.

But the difference between that and what I'm saying is that if you had a model airplane, and you had cameras in the model airplane and you put on your glasses, you'd be sitting in the model airplane. Then when you took off, you would be seeing what the model airplane was seeing.

So it wouldn't be a canned thing.

No, not at all. It would be real-time.

You would have created the situation that you'd be looking at—the tracks that you rode on would have been laid by you. And you would feel what it's like to go over them.

That's what I want to do with it. We're headed that way, we're just at the bottom. But there's a long way to go with it that's a lot of fun.

And then when you break it, you take off your glasses, you reach in, you get it and fix it.

"That tree is broken..."

Right. "I knocked down the barn."

Advanced toys. Bringing people together in different ways. It's kind of like an innocent endeavor. There's something really good about it that I like, and it gives me a lot of relief.

A change of mode from the rock 'n' roll thing.

Yeah. It's a distraction.

Changing the subject completely, I was really interested in what you were saying at a conference last spring about the need to design better wheelchairs for the kids at the Bridge School. I know they use a lot of technology at the school, and I was wondering if you wanted to talk about it.

That's a very interesting subject to me.

First of all, I'd like to see a chair that knows where a child or where the person that's in the chair should be, what the optimum positioning is for that person, and constantly readjusts and pushes him into that position. If he slumps, it slowly just pushes him back and adjusts, so that he's back into a correct physical position, so the insides of the body can work correctly, instead of being deformed by being pushed one way.

If you have a disability, quite often you have what's called an extension, where the muscles come like this [stretches arms and legs out and goes rigid]. You extend—everything is full-on, like pretending you're lifting a weight, being as strong as you can. But it's an uncontrollable reflex, excitement brings it on. Feet go flying out and everything.

But slowly the chair takes you back, and puts you back, and relaxes you. Puts you back in the position. So the chair is your friend, constantly trying to adjust you and put you in your optimum positioning so you can work your device, be in the right physical space to work your device with whatever inputs you use.

There's all of these different ways for them to access the computer control, and they're all dependent on good positioning.

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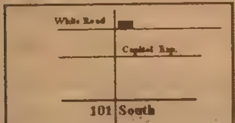

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When you have a physical being that's not in control except for a certain part of the body, and the rest is like randomly going off—so far all we've come up with is restraints, where you try to get them in the right position and then tie them in. It's like you're in the ejection seat in an airplane. You're in. You can't move.

But that's not good, because a lot of people with this extension are very strong. You could break your leg—if you push hard enough, things start to go. And you can't control it.

So the chair's got to give, and it's got to come back. That affords movement, which is healthy. If you're restrained all the time, it's not good for you.

You said that one of the issues is that the kids in the school use computers to learn and communicate, and that sometimes a kid is working with the computer and gets some positive result, causing him to become so excited that he gets out of position. It takes twenty minutes to get back into the right position again, by which time the benefit of the interactivity with the computer is pretty much lost.

That's exactly it. You want to be able to work with those things, have the chair know the optimum positioning. It has to have a lot of inputs and a lot of ways of adjusting, but there's got to be a modular way to build this stuff. There's got to be a way that everything is sensitive, things push, just find that right positioning. Know weight pressures and calculate...

People are all the same basic shape. When you're trying to make a chair for people where you're going to hold somebody in the right position, that means you physically have to make the chair custom-made for that person. But if you have the computer chair or a smart chair that, once it knows, keeps trying to do this, then that'll work for everybody.

Like adjustable hospital beds, though you'd need to be a lot less clunky.

They're not as quick as this. This has got to be real precise, because you don't want it to do any damage. You don't want it to hurt. There's always a risk that the chair could go awry, so there's a lot of things that have to be taken into consideration.

And then chairs that can move around. That's the easy part, I think, the robotic aspects of it. Chairs that know where you want to go, and take you to your destination. Chairs that know their way around the house. Chairs that know what room you're in. And if something is changed, it knows to go around it, even though it wasn't there the last time. Sensors. Ways of turning it off if it gets in trouble. Ways of reacting to different things.

From what I've read, they're doing some pretty interesting stuff with computers at the Bridge School.

Yeah. They have this software that they've developed, and they've developed ways of using programs that have been made by other people, and have developed manuals and published works on recommended ways of teaching kids how to learn using auditory scanning devices or visual scanning devices. That's what the Bridge is doing. I'm not in a position to talk, really, about what they do, because I might not do it justice.

From the computer aspect of it, just from that side of it alone, it's really fascinating. The challenge is great, and the limitations are many. There's so many things.

One of my pet peeves about computerized education in the public schools is that all the kids use different systems. It really would be nice if there was one device that could handle all of these, but there isn't. Then you would have like a universal tool that could be used as a school tool. All the teachers would only have to know how to operate one machine, rather than every child's different machine. "This is a SPARC computer—what do I do with this?" Or a Commodore, or a Mac, or an IBM. Here it is, this kid knows how to use it, and it's broken. And I don't know what to do with it. And here's the kid at school, and two-three-four hours are going by ...

That's not happening at the Bridge anymore, but that was one of the things that was happening in the public school section that my son Ben was in. There were just a lot of technical things to overcome.

So I wanted, and still would like, to see some sort of a meeting point for all of these technologies, that made them easy to understand for the teachers. So the teachers didn't have to be repair persons. As time goes by, this is going to catch on more and more, and it's going to become more and more of a problem—different systems, different users.

How do you help a kid who can only communicate with the system, but can't possibly fix it? It goes down, and what do you do? Does the teacher have to know every system, or should this teacher just know one system? I think the teacher should focus on learning one system very well, and all the students should use that system, and all the interfaces, no matter what they are—be it light-talkers or touch-talkers or aud scan or any kind of switch array input—should all go through the same type of thing and come out the other end onto the screen.

Standards.

Yeah. Standards should be set. And then the education could really take a leap. But you get into the bureaucracy of all that, that's a heck of a challenge. It's a real challenge.

Technology is going to be there to do some miraculous things, and it's going to happen at just about the time when the baby boomers enter the age when we're all having strokes and becoming incapacitated. Medicine will have advanced to a point where people don't die very early, no matter what happens to them, if they want to stay alive. Things are going to be extended that way. This whole huge generation is going to come upon that time of life, and the technology's going to be there. CEOs, people that are running things, are going to want to keep going. And all that stuff's going to be there.

That's the whole idea, that all of that's just starting, really. It's pretty amazing.

People are pretty familiar with the fact that you're in the music world and less familiar with the fact that you're a technical person as well. Have you just been leading parallel lives all this time?

I've always had technical interests. I'm into modern control of antiques, for some reason. I like the technology from the '50s and '60s.

I like the warmth of the analog sound. I'm a firm believer that the signal should stay analog as long as it can, and that it should be controlled without splitting it.

What does that mean, practically speaking?

Well, if you take a signal that goes along a wire and it gets to a place where you want to make it louder or softer, that's already there in the amplifier and in the guitar. But if you introduce another place, then you have to split the signal—if you have a foot pedal or something like that for volume control, you have to split the signal to do that.

As soon as you go through the device you've lost something. Every time you cut the wire and make it smaller and go in two different directions with the signal, you have split it in half. Only half of it gets through, best case.

I like to eliminate that problem by using the old technology—I like the way it sounds—and controlling it with mechanical interfaces which actually turn the knobs on the original. So there is no split signal, yet you have digital potentiometers making adjustments. They all have presets that you can access.

You're doing all this thing outside of the sound. You're controlling the original controls. It's like

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Neil Young *continued*

Video games are a very solitary, secluded, me-against-the-machine kind of thing, and I'm trying to use technology to make a toy that kind of stimulates a family situation.

robotics. You're playing the original instrument using the original knobs; you're not going through a whole network of sound manipulation to give it all these effects, where actually you're just losing your sound, and it's reconstituting it to make it sound like something else.

I like to keep as much of the original as possible.

So it's a logical extension from that to trains.

Yeah, right. It is. It's the same kind of thing—remote control of potentiometers and different effects.

I have a line of old effects I bought over the years, mostly from the '60s, old effects boxes. They have platinum switches that go to them. Each one of the switches is worth something like two hundred bucks, just for the metal on one side, then there's the other side; when they come together, that's the best contact I can get.

I have a line of four or five of those, and I can take that route. Or I can go straight through, put a platinum connection on either end and bypass that. If I'm not using them, I bypass them completely. But I still have to go through that platinum switch. I can just hear the difference. It's almost nothing, but I can still hear it.

If none of that stuff was there, it would be really pure, but...

What are the limitations, to your ear, of digital versus analog sound?

Digital's great for toys, and fantastic for news, incredible for archives, unbelievable for controlling things. But if you really want to get down to the real thing, when you go digital you lose it. Even though you're controlling it, you're really controlling a reproduction of it, a reconstitution.

It can't pick up everything.

Well, it picks everything up, but it averages it.

The way I like to explain it is (pointing through screen on window to my car in the parking lot)—see this screen here? We're looking through the screen. You're looking at the car out there, it's a little Hyundai or Honda or something. In the digital world, every one of these little squares in the screen is averaged to the dominant color. It is what it is.

In the analog world, and in the real world—suppose you were looking at the clouds. Every one of these little squares has a universe of possibilities in it that you are really sensing. Your body can sense these little things. They're like input for you. They make you feel good.

That's why the world is such a great place—you walk outside and you look at the sky and it's beautiful. But if all of a sudden you were robbed of ever being able to see that again, and all you saw was digital—if you became like a robot, no more eyes, you'd miss it. It would be like a feeling. You'd feel it. You wouldn't feel this cleansing you get from your mind looking at all its infinite possibilities.

It would be like being in a hermetically sealed air-conditioned building versus breathing real air.

Yeah, right. You get the real input, and the joy of having to balance out all of these factors. It's like a massage for your senses. Music is supposed to be that. So digital music is like a catastrophe—you don't have it. It's just not there.

The standard now is 16 bits. I've sampled my old masters at 24, which is like years ahead, and then I can break it down into 16, where we are now. In the future, when Super CDs, and Super-Super CDs or whatever's next after that come along, 24-bit may be realistic for that. The amount of more detail you get with 24 as opposed to 16 is quite a lot.

The idea of not having it all is really hard for me to take. Even getting as much as 256 times more, or whatever it is when you go to 24—I don't know the math, but I know it's some astronomical amount—every one of these squares would have 256 squares in it.

That kind of detail's approaching what should be happening. But for music, which is supposed to have a cleansing or [*grins*] polluting effect on you, whatever, it can't do it. It's limited by its digital nature. It's a sensual thing, completely. ■

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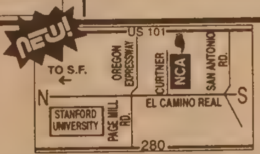

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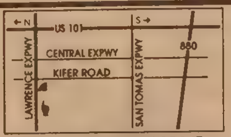

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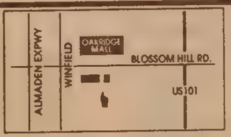

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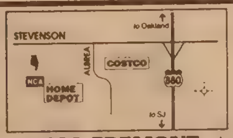

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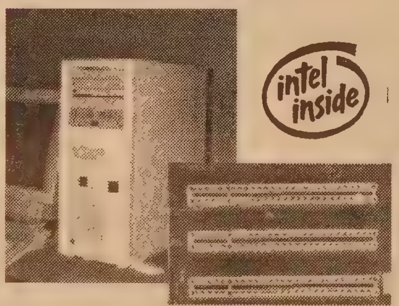

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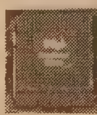

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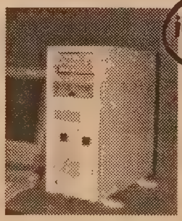

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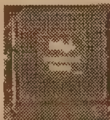

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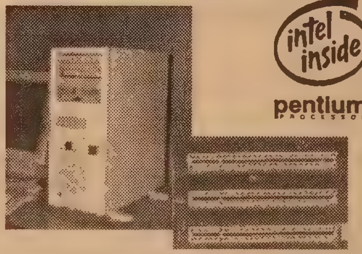

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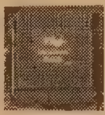

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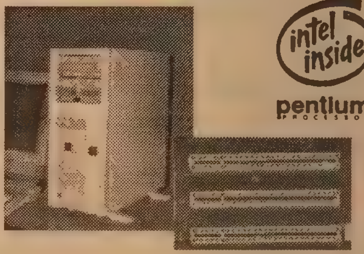

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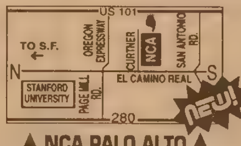

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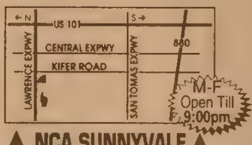

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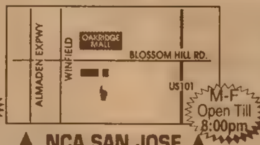

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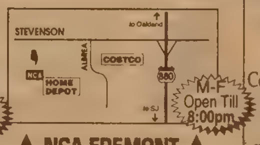

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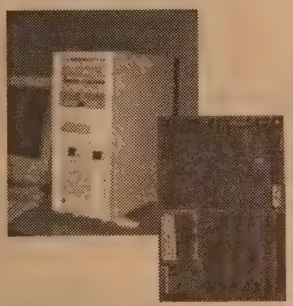

intel inside

486DX/2-66MHZ /VLB TOWER SYSTEM

- Intel DX2/66 CPU
- 1 ISA 8-Bit/2 VESA Local Bus Slots
- 256K Cache exp. to 512K
- 0MB exp. to 64MB DRAM
- Award BIOS
- SIS Chip Set
- ZIF Socket
- Uses 4X30 Pin SIMMS or 2X72 Pin SIMMS
- Green PC Energy Star Compliant
- Teac 1.44M or 1.2M Floppy Drives
- Mitsumi High Quality Keyboard
- NCA's Special 9-bay Tower Case
- 250W UL Power Supply

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ALEXIS 4M-2

intel inside

486DX/2-66MHZ /PCI & VLB TOWER SYSTEM

- Intel DX2/66MHz CPU
- 3 PCI Slots
- 4 ISA 16-Bit / 1 ISA 8-Bit
- 2 VESA Local Bus Slots
- 256K Cache
- 0MB exp. to 128MB DRAM
- AMI BIOS
- ALI Chip Set
- ZIF Socket
- Uses 72 Pin SIMMS
- Green PC Energy Star Compliant
- Teac 1.44M or 1.2M Floppy Drives
- Mitsumi High Quality Keyboard
- NCA's Special 9-bay Tower Case
- 250W UL Power Supply

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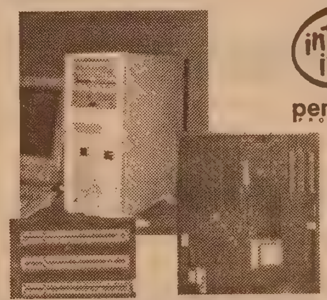
ALEXIS 6M



intel inside

pentium PROCESSOR

PENTIUM 60MHZ /PCI & EISA SUPER TOWER SYSTEM

- Intel Pentium 60MHz CPU
- 7 EISA Slots
- 3 PCI Bus Master Slots
- Fast SCSI-II On PCI Local PCI Slot
- 2 Serial, 1 Parallel & 1FDC
- 1 IDE Interface
- 256K Cache
- 0MB exp. to 192MB DRAM
- AMI BIOS
- Intel Mercury Chip Set
- ZIF Socket
- Uses 72 Pin SIMMS
- Teac 1.44M or 1.2M Floppy Drives
- Mitsumi High Quality Keyboard
- NCA's Special Super Tower Case
- 250W UL Power Supply

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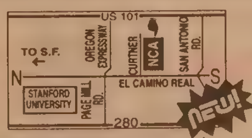
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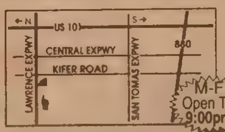
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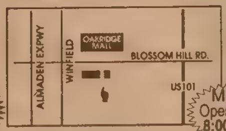
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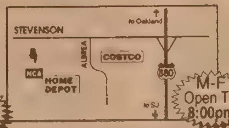
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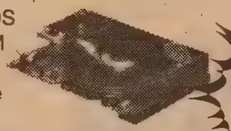

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CAPACITY	M/N	SIZE	RPM	SPEED	INTERNAL	EXTERNAL
1.0GB	3107L	3.5"X1"	5400	9ms	$699	$799
2.1GB	3210S	3.5"	5400	9.5ms	$1279	$1379
3.5GB	5350S	FH	5400	11.5ms	$1999	$2199

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210MB IDE............$159
14ms, CFA210

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540MB IDE............$269
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810MB IDE............$429
<12ms, CFA810A LOW PROFILE 3.5" X1"

1.08GB IDE...........$559
<9.5 ms, CFA1080A

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	INTERNAL	EXTERNAL
340MB SCSI	$229....	$329
CP30340S, 256K,3.5"X1"		
540MB SCSI	$299....	$399
CP30540S, 3.5"X1", 256K		
1.0GB SCSI	$589....	$689
CFP1060S, 256K, <10MS, 3.5"X1"		

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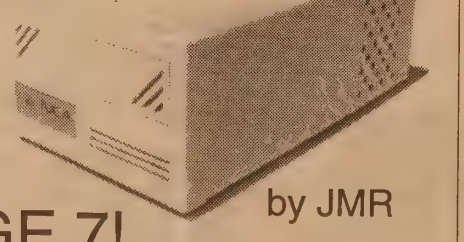

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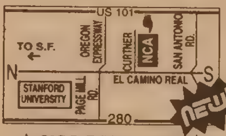

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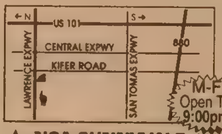

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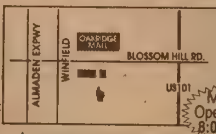

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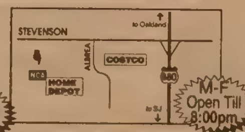

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540MB IDE	QM30540MVA	12ms	3.5"X1"	$259
270MB SCSI	QM30270MVS	12ms	3.5"X1"	$209
540MB SCSI	QM30540MVS	12ms	3.5"X1"	$269

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540MB IDE	QM3054LTA	12ms	3.5"X1"	$279
540MB SCSI	QM30540LTS	12ms	3.5"X1"	$299
730MB IDE	QM30730LTA	12ms	3.5"X1"	$399
730MB SCSI	QM30730LTS	12ms	3.5"X1"	$409

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256MB	GLS256AT		17ms	2.5"X19mm	$339
514MB	QM20514		14ms	2.5"X19mm	$499
170MB	ELS170A	32K	17ms	3.5X1"	169
210MB	LPS210A	32K	17ms	3.5"X1"	$169
270MB	**LPS270A**	**128K**	**12ms**	**3.5X1"**	**$189**
365MB	**QM30365A**	**64K**	**12ms**	**3.5X1"**	**$195**
540MB	**LPS540AT**	**128K**	**12ms**	**3.5X1"**	**$259**

SCSI

CAPACITY	M/N	FOR MAC POWERBOOKS	SPEED	SIZE	PRICE
160MB	GRS160S		17ms	2.5" X17mm	$259

CAPACITY	M/N	CACHE	SPEED	SIZE	INTERNAL	EXTERNAL
170MB	ELS170S	32K	17ms	3.5X1"	$179	$279
540MB	LPS540S	128K	12ms	3.5"X1"	$269	$369
540MB	EMPIRE	512K	9.5MS	3.5"X1"	$499	$629
1.0GB	PD1080S	512K	9.5ms	3.5"X1"	$599	$699
1.4GB	1400S	512K	8.9ms	3.5"X1"	$829	$929
2.1GB	**EMPIRE**	**512K**	**8.9ms**	**3.5"**	**$1129**	**$1229**

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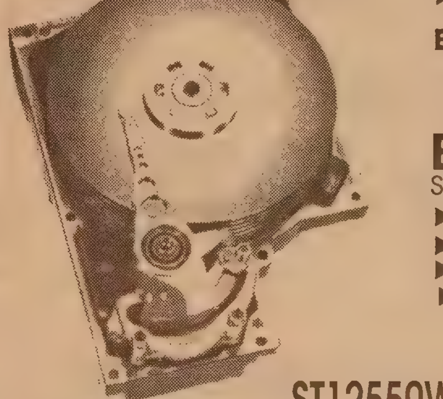

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- ▶ 7200RPM
- ▶ Fast SCSI-II
- ▶ 500,000MTBF

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EXTERNAL $2499

ST12550W Fast Wide SCSI-II....$1499

IDE

CAPACITY	M/N	CACHE	SPEED	SIZE	PRICE
210MB	ST3243A	---	16ms	3.5"x1"	$189
341MB	ST3391A	120K	13ms	3.5X1"	$249
545MB	ST3655A	256K	12ms	3.5X1"	$399
130MB	*ST9145AG*	*64K*	*16ms*	*2.5" NOTEBOOK*	*$259*
209MB	*ST9235AG*	*64K*	*16ms*	*2.5" NOTEBOOK*	*$339*
340MB	*ST9385AG*	*64K*	*16ms*	*2.5" NOTEBOOK*	*$469*

SCSI

CAPACITY	M/N	CACHE	SPEED	SIZE	INTERNAL	EXTERNAL
456MB	ST3550N	256K	12ms	3.5X1"	$339	$449
1.0GB	**ST31200N**	**256K**	**9ms**	**3.5"x1"**	**$679**	**$779**
1.6GB	ST11950N	1024K	8ms	3.5"	$1249	$1359
2.1GB	ST12400N	256K	9ms	3.5"	$1099	$1199
2.1GB	ST12550N	1024K	8ms	3.5"	$1189	$1299
2.9GB	ST43400N	512K	10ms	FH	$1959	$2169
2.9GB	ST43401N	512K	10ms	5.25	$2099	$2299
4.1GB	ST15150N	7200RPM	8ms	3.5"	$2399	$2499
4.3GB	ST15230N	7200RPM	8ms	3.5	$1999	$2099
9.0GB	ST410800N	1024K	11.5ms	5.25	$3899	$4099

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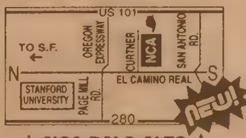

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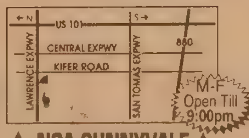

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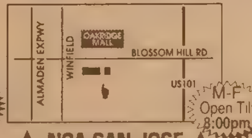

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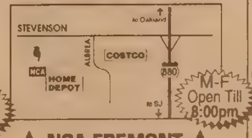

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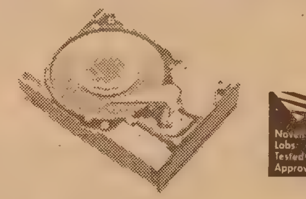
- 3.5"X1" Low Profile



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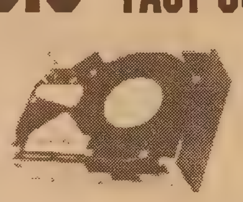

$878

EXTERNAL...$979

IDE

	MODEL	RPM	SPEED	SIZE	INTERNAL
1.05GB	MC4110A	5400	8.5ms	3.5"	$579
1.75GB	MC2217A	5400	10ms	3.5"	$879

SCSI

	MODEL	RPM	SPEED	SIZE	INTERNAL	EXTERNAL
1.0GB	MC2210AV	Audio/Visual			$699	$799
1.0GB	MC4110	5400	8.5ms	3.5"X1"	$579	$679
1.75GB	MC2217	5400	10ms	3.5"	$879	$979
1.75GB	MC2217AV	Audio/Visual			$1049	$1149
1.75GB	MC2217DW	Fast Wide Differentional			$1299	$N/A
2.0GB	MC42215	5400	8.5msl	3.5" X 1"	$1499	$1599
3.0GB	**MC1936**	**5400**	**11ms**	**FH**	**$1799**	**$1899**
3.0GB	**MC1936AV**	**Audio/Visual**			**$1899**	**$1999**
4.0GB	**MC3143S**	**5400**	**8.5ms**	**3.5" X 1"**	**$2999**	**$3099**
9.1GB	**MC1991**	**5400**	**10msl**	**5.25" X 1"**	**$3899**	**$4099**

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- 6400RPM
- 500,000RPM
- 5-Yr. Warr.
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- Up to 10Megabytes/s (synchronous)

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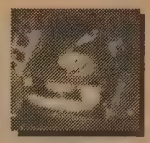

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CAPACITY	M/N	CACHE	SPEED	SIZE	INTERNAL	EXTERNAL
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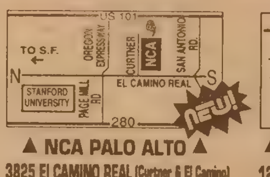

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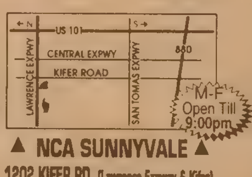

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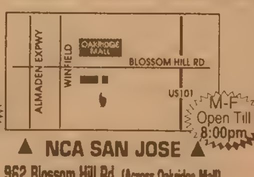

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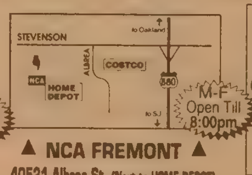

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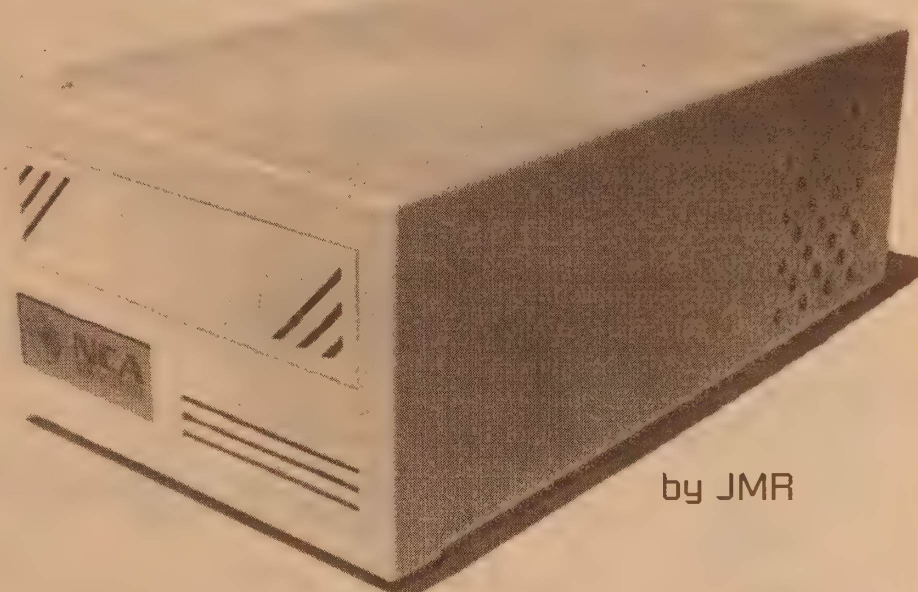

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External
3.5" Fixed SCSI Disk Drives

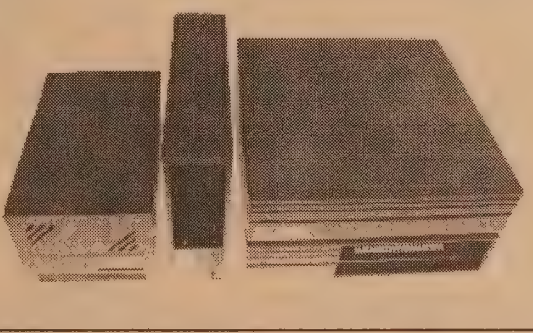
SIZE	Int. Drive	SPEED	WARRANTY	PRICE
Formatted				
170Mb	Quantum	17ms	2Yr	$279
270Mb	Quantum Maverick	12ms	2Yr	$319
290Mb	Maxtor	14ms	2Yr	$339
340Mb	Conner		2Yr	$329
345Mb	Maxtor	15ms	2Yr	$359
456Mb	Seagate	10ms	1Yr	$449
530Mb	Fujitsu	State of the Art	5Yr	$399
540Mb	Quantum Empire	9.5ms	2Yr	$629
540Mb	Quantum Maverick	12ms	2Yr	$379
540Mb	Quantum Lightening	12ms	2Yr	$409
540Mb	Maxtor	8.5ms	2Yr	$459
540Mb	Conner	12ms	1Yr	$399
730Mb	Quantum Lightening	12ms	2Yr	$519
1.0Gb	Quantum	9.5ms	5Yr	$699
1.0Gb	Conner	<10ms	1Yr	$689
1.0Gb	Micropolis	8.5ms	5Yr	$679
1.0Gb	IBM	8.6ms	5Yr	$749
1.0Gb	Seagate	9ms	5Yr	$779
1.0Gb	DEC 3107	9ms	5Yr	$799
1.0Gb	Fujitsu	10ms	5Yr	$689
1.05Gb	HP	10.5ms	5Yr	$779
1.4Gb	Quantum	8.9ms	5Yr	$929
1.6Gb	DEC	9ms	5Yr	$999
1.75Gb	Micropolis	10ms	5Yr	$979
2.0Gb	IBM	8.6ms	5Yr	$1259
2.1Gb	Seagate	9ms	5Yr	$1199
2.1Gb	HP	8.9ms	5Yr	$1299
2.1Gb	DEC	9.5ms	5Yr	$1379
2.1Gb	Quantum Empire	8.9ms	5Yr	$1229
2.1Gb	Seagate	8ms	5Yr	$1359
4.0Gb	Micropolis	8.5ms	5Yr	$3099
4.1Gb	Seagate Barracuda	8ms	5Yr	$2499
4.3Gb	Seagate	8ms	5Yr	$2099

NCA's

Barracuda II

External
FH Fixed SCSI Disk Drives

SIZE	Int. Drive	SPEED	WARRANTY	PRICE
Formatted				
2.0Gb	Micropolis	8.5ms	5Yr	$1599
2.9Gb	Seagate 43400N	10ms	5Yr	$2169
2.9Gb	Seagate 43401N	10ms	5Yr	$2299
3.0Gb	Micropolis 1936	11ms	5Yr	$1899
3.5Gb	DEC	11.5ms	5Yr	$2199
4.0Gb	IBM	11ms	5Yr	$2599
9.0Gb	Seagate	11.5ms	5Yr	$4099
9.1Gb	Micropolis	10msl	5Yr	$4099



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External
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SIZE(UPTO)	MAKE	MODEL	TYPE	PRICE
250Mb	WangTek	5150ES	1/4"	$499
250Mb	Connor Viper	2150S	1/4"	$424
525Mb	Conner Viper	2155S	1/4"	$559
525Mb	WangTek	E5525S	1/4"	$649
1.3Gb	Connor Anaconda	2750	1/4"	$899
1.5Gb	Exabyte	FS1G		$898
2.5Gb	Exabyte	EXB8205	8mm	$1599
5.0Gb	Exabyte	EXB8500	8mm	$2599
5.0Gb	Exabyte	EXB8505	8mm	$2499
2.0Gb	HP	35470	4mm	$899
2.0Gb	Connor Python	4320NT	4mm	$899
2.0Gb	WangDat	3100	4mm	$949
4.0Gb	Connor Python	4324	4mm	$999
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4-8.0Gb	HP	35480	4mm	$999
4-8.0Gb	WangDat	3200	4mm	$999
4-8.0Gb	WangDat	3400Dx	4mm	$1099
4-16.0Gb	HP		4mm	$1199

MAC Backup Software	*add $ 79⁹⁵*
NovaBack for PC or WIN	*add $ 89⁹⁵*
Novell NLM Unlimited user	*add $339⁹⁵*

EXTERNAL SCSI CD ROMs:

MAKE	MODEL	ACCESS	TRANSFER	PRICE
TOSHIBA	3401B	200ms	330Kb	$359
TOSHIBA	3501B	150ms	600Kb	$429
TOSHIBA	4101B	250ms	300Kb	$279
NEC	3Xe	190ms	450Kb	$399⁹⁵
NEC	3Xi	190ms	450kb	$479⁹⁵
NEC	3Xp	240ms	450kb	$379⁹⁵
NEC	4X PRO	180ms	600kb	$519⁹⁵
Plextor	5028	240ms	330Kb	$359
Plextor	3028	240ms	330kb	$379
Plextor	Quad-SPeed		600kb	$449
PIONEER	602X	300ms	307Kb	$399
PIONEER	604X	300ms	612Kb	$969
PIONEER	1804	300ms	614Kb	$1899
Backpack		250ms	300kb	$329

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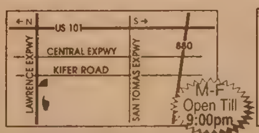

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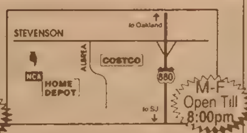

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INCLUDES: 1 CARTRIDGE & NOVABACK BACKUP SOFTWARE

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SCSI 4mm DAT

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4-8GB	35480 DAT	$889⁹⁵	$999⁹⁵
4-16GB	C1533A	$1099⁹⁵	$1199⁹⁵

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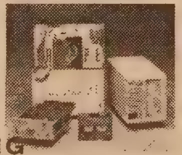
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1.5 GB SCSI Tape Storage

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CAPACITY	MODEL	INTERNAL	EXTERNAL
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5 GB 8mm DAT Subsystem

CAPACITY	MODEL	INTERNAL	EXTERNAL
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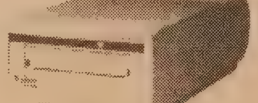

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250MB	TRAKKER 250	$317⁹⁵

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2GB External Tape Backup system

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CAPACITY	MODEL	INTERNAL	EXTERNAL
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4-8GB	3200 DAT	$899⁹⁵	$999⁹⁵

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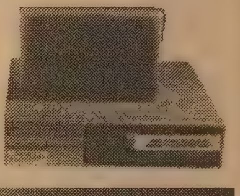

SCSI Tape

CAPACITY	MODEL	INTERNAL	EXTERNAL
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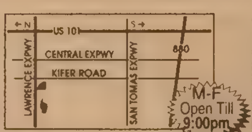

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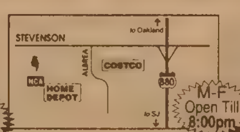

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- Easy installation & use
- 100% QIC 80 compatible
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- Includes Filesafe First software

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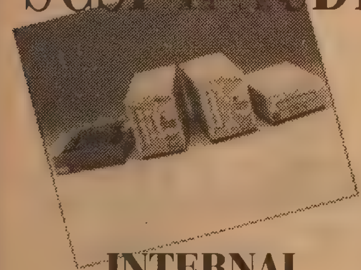

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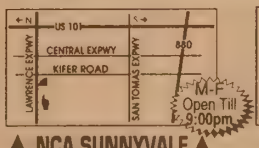
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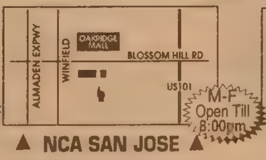
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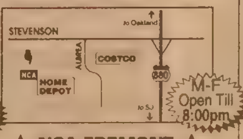
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1.3GB Multifunction Rewritable & WORM Drive

- HP C1716T
- SCSI-2 1.3GB

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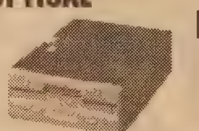
EXTERNAL C2550 WITH CARTRIDGE **$2799**

1.3GB Cartridge........................$129

RICOH

128MBYTE, 3.5" SCSI-II REWRITABLE OPTICAL



- 3000 RPM
- 256K Cache
- Approx. 40ms

INTERNAL **$719**

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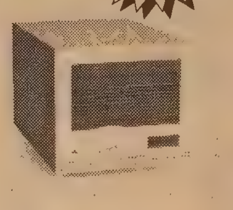
Multifunction Magento-Optical Disk Drive for 1-Gbyte and 650-Mbyte Rewritable and WORM Disk Cartridges, With up to 4-Mbytes Read/Write cache

Maxoptix™

1GB CART. glass/poly $195



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- One Year Factory Warranty
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- External Optical Drive
- Using 2512 Internal
- Includes 1 Cartridge
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- 2512
- Low Profile, Only 1"
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- Cables & Software for MAC
- 13.5ms Seek Time
- Includes one cartridge

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- 200MB Cartridge
- Cables
- Installation Software (for MAC)
- PC Software Included With Controller Purchase

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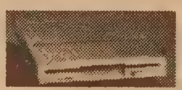
Internal Bare Drive $379

NEC



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88MB C SYQUEST REMOVABLE

External 88MB C Drive
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- Cables
- Reads & Write Both 44 & 88 MB
- Installation Software (for MAC)
- PC Software Included With Controller Purchase

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- 105MB Cartridge
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- PC Software Included With Controller Purchase

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CAPACITY	SINGLE	5-PACK
44MB Cartridge (5.25")	$59	$295
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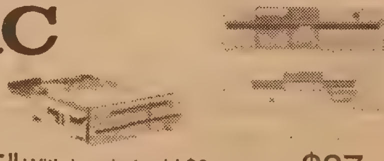
270MB Cartridge (3.5")	$85	$410

TEAC



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floptical

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INCLUDES:
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- Cables , Software for MAC

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- One Floptical Media
- Host adapter SCSI 8-bit
- Cables , Software for PC

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EXTERNAL **$429**

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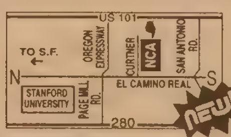

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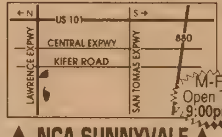

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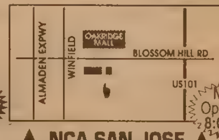

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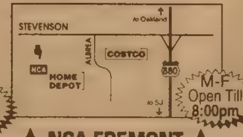

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- INTERNAL QUAD-SPEED CD-ROM DRIVE
- 16-bit CD quality sound card, Wave Table Upgradable
- Premium stereo speakers, headphones & microphone
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$499

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CD-ROM Drive With Interface

- 600 Kbytes/sec transfer rate
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- Sound Blaster compatible
- Includes:
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  - Installation software
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  - Mounting hardware
  - Installation manuals

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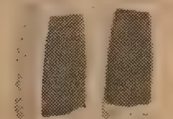
RECOTON

AMPLIFIED SHIELDED STEREO SPEAKERS



Includes AC Power Adapter
64555

$24.99

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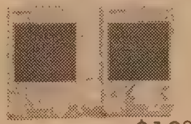
64540

labtec



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SCSI CD ROMs

SEE PAGE 18

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250ms
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Ideal for Notebooks or Laptops
Supplied Device Drivers
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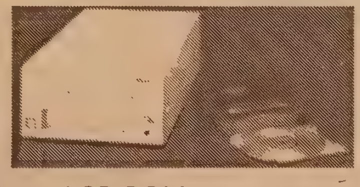

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- 200ms / 330Kb/sec
- Multi-Spin / Multi-Speed
- 256K CACHE Buffer

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DoubleSpeedPLUS

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- *FAST* 240ms
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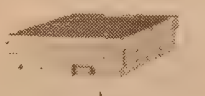

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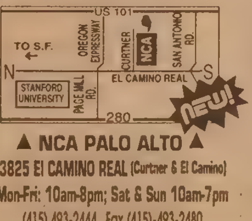

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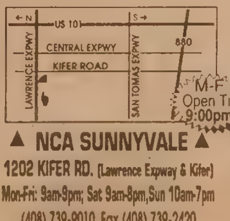

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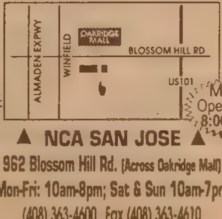

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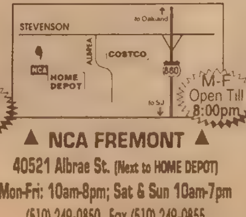

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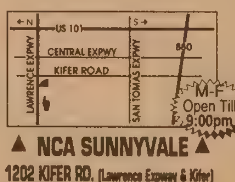

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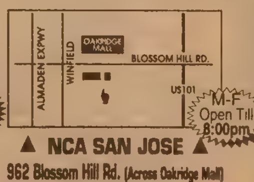

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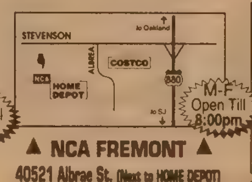

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MULTIMEDIA

MORE

MEDIA VISION

PREMIUM DELUXE

CD-ROM Player

- Double Speed 180ms SCSI-2 Reno Portable CD-ROM & Audio Disc Player
- Protective Carrying Case
- Batteries & Headphones

MV400

$288

FAMILY DELUXE

Multimedia Kit

- 16-Bit Digital Stereo Sound Card
- Incredible Double Speed CD-ROM Drive
- 320ms Access Time
- Photo CD Multimedia Ready
- Condensor Microphone
- Amplified Speaekrs
- 9 Software Titles

MV2000

$328

SUPER DELUXE

Multimedia Kit

- 16-Bit Digital Stereo Sound Card
- Incredible Double Speed CD-ROM Drive
- 320ms Access Time
- Photo CD Multimedia Ready
- Condensor Microphone
- Amplified Speaekrs
- 15 Software Titles

MV3000

$378

PREMIUM DELUXE

Multimedia Kit

- Double Speed 180ms SCSI-2 Reno Portable CD-ROM & Audio Disc Player
- Premium 16-Bit Sound Card
- 15 Software Titles
- Protective Carrying Case
- Two Powered Speakers
- Microphone & Headphones

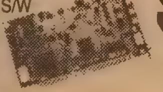
MV4000

$478

PRO AUDIO STUDIO 16

SOUND CARD

- True Stereo Sound
- Advanced 20 Voice Stereo Synthesizer
- MIDI/SCSI interface
- Voice Recognition
- Microphone & S/W



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PRO DELUXE

Multimedia Kit

- Triple Speed 195ms SCSI-2 CD-ROM
- Premium 16-Bit SCI-2 Sound Card
- 15 Hot Software Titles
- Protective Carrying Case
- Two Powered Speakers
- Microphone & Headphones

MV5000

$669

DELUXE SOUND CARD

DELUXE 16-BIT SOUND CARD

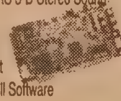
- Deluxe 16-Bit Stereo Sound
- Wave Table Upgradeable
- CD-ROM Interface
- Complete Software Tool Kit
- Quick Start Intelligent Install Software

$99

PREMIUM 3-D SOUND CARD

SCSI-II SOUND CARD

- Premium 16-Bit Card w/ SRS 3-D Stereo Sound
- Wave Table Upgradeable
- SCSI-II CD-ROM Interface
- Complete Software Tool Kit
- Quick Start Intelligent Install Software



$148

MIDI Mate (External midi connector box)..$45

MEDIAMAGIC

SONY 33A DOUBLE SPEED CD-ROM DRIVE

- ▶ Internal Double Speed CD-ROM Drive
- ▶ Controller Card, Cables, Documentation
- ▶ 8 FREE Software Titles on 2 CD-ROM Disks

RETAIL PACKAGE!

$139

PCMCIA SOUND CARD 16-bit, type 2, 20-voice, includes software, headphones ...$299
ISP-16 SOUND CARD 16-bit, 20-voice (OPL3) CD-ROM interface..................$79
DSP-16 PLUS SCSI SOUND CARD 16-bit card with wavetable & DSP $139

AITech

AUDIOSHOW Audio & Video

- ▶ VGA to PAL or NTSC; converts computer's output to TV or Video tape
- ▶ 16-Bit Stereo Audio with 4-Watt amplifier; CD Quality recording
- ▶ CD ROM interface. Joystick port, MIDI In/Out and built-in amplifier

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THE PROFESSIONAL PC/MAC TO BIG-SCREEN TV PRESENTATION TOOL!

- Dazzling Presentations
- Wireless Freedom
- Up to 4 Devices Displays
- PC/MAC To TV Converter
- Virtually Flicker Free

$369

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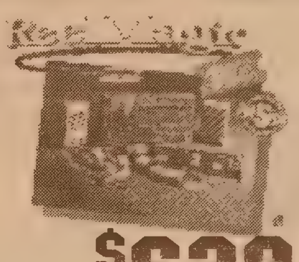
ORCHID SEE Page 24

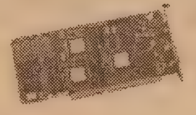
SIGMA DESIGNS®

REELMAGIC COMPLETE MULTIMEDIA UPGRADE KIT



- ▶ Double Speed CD-ROM
- ▶ High Quality Speakers
- ▶ Bundled Software Titles, & ReelMagic Controller Card

$629

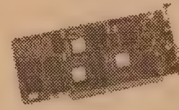


REELMAGIC LITE

QUALITY VIDEO & CD QUALITY AUDIO CONTROLLER CARD

- ▶ Plays Video CD feature films on your PC
- ▶ On-board MPEG Video and Audio Decomporession
- ▶ 32,768 Color in any mode - 30 fps - Full screen Size

$289

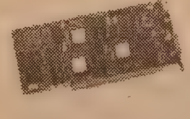


REELMAGIC THEATER

QUALITY VIDEO & CD QUALITY AUDIO CONTROLLER CARD

- ▶ Plays Video CD feature films on your PC
- ▶ On-bcard MPEG Video and Audio Decomporession - 16-Bit Sound Capability
- ▶ 32,768 Color in any mode - 30 fps - Full screen Size
- ▶ Supports IDE CD-Rom Drives

$359



REELMAGIC SCSI

QUALITY VIDEO & CD QUALITY AUDIO CONTROLLER CARD

- ▶ Plays Video CD feature films on your PC
- ▶ On-board MPEG Video and Audio Decomporession - 16-Bit Sound Capability
- ▶ 32,768 Color in any mode - 30 fps - Full screen Size
- ▶ Supports Scsl CD Rom Drives

$419

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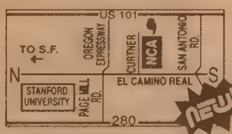

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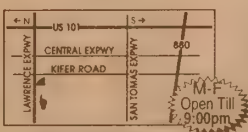

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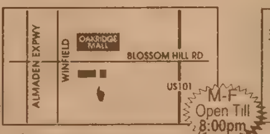

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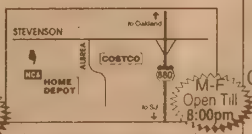

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MULTIMEDIA

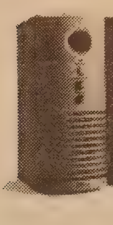
YAMAHA

YAMAHA POWERED MONITOR SPEAKERS

NEW!

YST-M5

- 3 Watts per channel
- Video Shielded
- Active Servo Technology delivers Life-Like sound
- 90Hz-20KHz ± 3dB
- Includes AC Adapter



\$69^{95}

YST-M10

- 10 Watts per channel
- Video Shielded
- Active Servo Technology delivers Life-Like sound
- 80Hz-20KHz ± 3dB
- Includes AC Adapter
- 4 Star Rating "MACWorld April 1994"

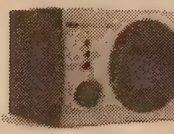
\$89^{95}

YAMAHA POWERED SUBWOOFER

NEW!

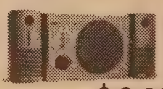
YST-MSW10

- 25 Watts
- Video Shielded
- Auto On/Off Switching
- Active Servo Technology delivers Life-Like sound
- 35Hz-250KHz ± 10dB



\$179^{95}

SPEAKER BUNDLES:



YST-SS1010 includes YST-M10 speakers & Subwoofer..\$249^{95}

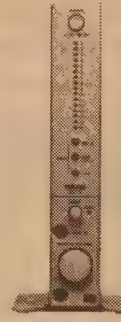
YST-SS510 includes YST-M5 speakers & Subwoofer......\$219^{95}

YAMAHA EXTERNAL MIDI SOUND CARD

CBX-T3

PC or MAC

- Advanced Wave Memory
- 192 Instrument & Effect Voices
- 10 Different Drum & Percussion Sets
- Connects Via Serial Port on MIDI Port
- Available for PC or MAC
- Includes Passport Trax™ MIDI Player SoftwareBundle
- "Best Synthesizer" Multi-Media World



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YAMAHA MIDI-CONTROLLER PIANO KEYBOARD

K-3

- Professional Quality Keyboard
- Velocity Sensitive
- Pitch Bend Wheel
- Modulation Wheel
- Operates Sound Cards with MIDI Port

\$299^{95}

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LEADING THE WORLD IN SOUND INNOVATION

SOUND BY ENSONIQ™

NEW!

SOUNDSCAPE

SOUNDSCAPE™ 16-BIT WAVETABLE SOUND CARD

- 16 channel, 32 voice polyphony
- Up to 44.1Khz record & playback
- 2MB Ensoniq waveform ROM
- Motorola 6800 processor on-board
- MIDI/joystick interface
- CD-ROM interface for Sony, Mitsumi and Panasonic
- Includes Voyetra suite of software applications, DOS utilities and Windows easy installation software
- 3 Year limited warranty

"BEST OVERALL VALUE!"
WINDOWS MAGAZINE, 1994

\$179^{95}

SOUNDSCAPE™ 16-BIT SOUND SYSTEM KIT

- Includes Soundscape™ 16-bit wavetable sound card
- Includes Altec Lansing ACS 31 speaker system
- Speakers feature:
  - High frequency response (40Hz-20KHz)
  - 12 watts of power, subwoofer at 18 watts
- 3 year limited warrranty

\$269^{95}

SOUNDSCAPE DB™ 16-BIT WAVETABLE UPGRADE

- Add Wavetable sound to your existing FM sound card
- Attaches to the 26 pin option upgrade connector most popular FM sound cards
- Features the same great sound wavetable quality & compatibility found in the original Soundscape™ 16-bit wavetable card

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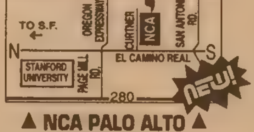

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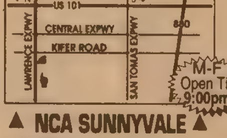

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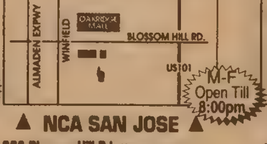

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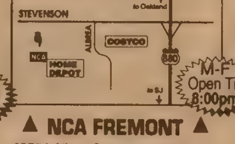

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CD ROM KITS & ACCESSORIES

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RECOTON®

MULTIMEDIA HEADPHONES

WIRELESS STEREO HEADPHONE

Enjoy the freedom of wireless with this Recoton W 500 Wireless Stereo Headphone. New 900Mhz signals travel through walls & Floors up to 150 ft. away! Watch & listen to your multimedia computer without disturbing others at the office or at home!

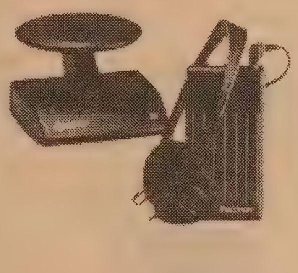
- No Wires
- No line-of-sight limitations
- Built-in rechargable battery

W500

$99

WIRELESS STEREO HEADPHONE

The ultra small receiver features volume control, tuning control, on/off switch and a belt clip. New 900Mhz signals travel through walls & Floors up to 150 ft. away! Watch & listen to your multimedia computer without disturbing others at the office or at home!



- No Wires
- No line-of-sight limitations
- Use your favorite stero head phone or the high performance headphone included

W200SX

$79

LIGHTWEIGHT DIGITAL STEREO HEADPHONES

This is a lightweight digital stereophone with foldaway earcups for compact storage. Supplied with a 1/4" adapter for home use and a convenient carrying pouch for portable applications.

EG24

$17.99

UNIQUE LIGHTWEIGHT STEREO HEADPHONES

This unique, lightweight stereophone features 30mm Samarium Cobalt speaker elements and a single entry cord with in-line volume control. Includes 1/4" adapter.

EG18

$9.99

MICRO IN-THE-EAR EARBUDS

This micro "in-the-ear" stereo earbud is supplied with a deluxe winder case and unique micro volume control.

EG36

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CREATIVE LABS, INC

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Presenting the Complete PC Multimedia Solution

DIGITALEDGE CD™ 3X
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- Sound Blaster 16 with ASP Chip
- Creative Labs Triple Speed CD ROM
- Microphone included
- High quality Stereo speakers:
- The most valuable CD ROM titles Bundle includes
  - Aldus PhotoStyler, Macromedia Action digital Video Software Toolworks Multimedia Encyclopedia, Authorware Star, Microsoft Works for Window, Microsoft Bookshelf

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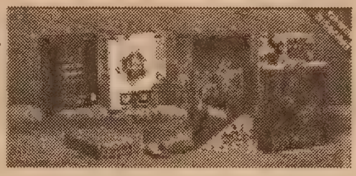
OMNI 3X
TRIPLE SPEED UPGRADE KIT



- Triple Speed Drive
- Super Software Bundle:

New Groiler Encyclopedia
Aldus Photostyler SE
Gallery Effects, Altamira
Kai's Powertools, HSC Digital Morpht

$285

GAME BLASTER CD 16™
ADVANCED MULTIMEDIA UPGRADE KIT

- Game Blaster 16
- Double Speed CD ROM Drive
- High Performance Joystick & Speakers
- Top Games Bundled CD ROM Titles

$375

EDUTAINMENT CD 16™
MULTIMEDIA UPGRADE KIT

- Stereo Speakers
- Sound Blaster 16, 16-Bit stereo sound Card
- Creative Labs Double-Speed internal CD ROM drive
- CD ROM Software Bundle Includes: Software Toolworks Multimedia Encyclopedia, Lucasfilm Games (3 games) Simulations Sherlock Holmes Detective.
- Windows 3.1 and OS/2 2.0 Compatible

$399

DISCOVERY CD 16™
MULTIMEDIA UPGRADE |

- Sound Blaster CD 16
- Double Speed CD ROM Dirve
- Stereo Speakers
- Top Quality Software

$245

OFFICE MULTI-MEDIA
MULTIMEDIA UPGRADE KIT

$525

Sound Blaster Value 8-Bit Sound Card With software	$59
Sound Blaster Pro Value Edition	$79
Sound Blaster 16 Basic Value Edition	$99
Sound Blaster 16 MultiCD/with ASP	$129/165
Wave Blaster	$169
Sound Blaster AWE32 VALUE EDITION	$229
Sound Blaster AWE32	$269
Sound Blaster 16 SCSI-II/with ASP	$169/191
Video Blaster RT200	$299
Video Blaster RT300	$339

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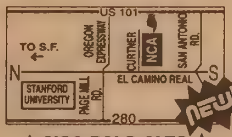

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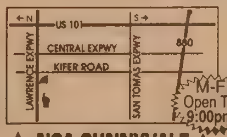

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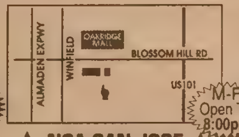

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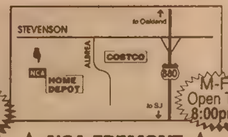

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CONTROLLERS

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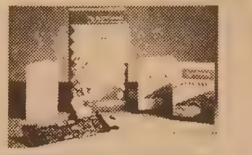
SCSI CONTROLLERS

adaptec



SCSI CONTROLLERS

MODEL	DESCRIPTION	PRICE
1505	TOTAL CD 16-BIT SCSI-II	$49
1510	CD ROM 16-BIT -SCSI CARD KIT	$89
1522	16-BIT 7HD/2FD KIT	$139
1542CF	BUS MASTER COMPLETE KIT	$249
1542C+	BUS MASTER KIT WITH COREL SCSI	$314
1640	MICROCHANNEL FOR PS/2, 7HD	$299
2742	**EISA KIT, 14HDS**	**$359**
2742W	Fast Wide SCSI EISA	$379
2842A	**Fast SCSI-II VESA**	**$259**
APA-460	Slim SCSI PCMCIA SCSI Card	$289
AHA-2940	PCI SCSI MASTER RISC-BASED I/O	$279
AHA-2940W	PCI FAST-WIDE SCSI	$359
AMM-1570	**FULL SCSI WITH ADVANCED AUDIO**	**$319**

SEE PAGE 17 FOR NEW ADAPTEC PRODUCTS!

DATA TECHNOLOGY CORPORATION

SCSI CONTROLLERS

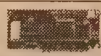
MODEL	DESCRIPTION	PRICE
DTC3270VL	32-Bit VESA 7SCSI/2FD SCSI	$119
DTC 3280AS	16-Bit ISA to SCSI Host Adapter	$104
DTC3280AS	EISA to SCSI 32-Bit Host w/Cache	$499

American Megatrends

SCSI CONTROLLERS

DESCRIPTION	PRICE
FastDisk NC EISA non-cache SCSI cont.	$295
FastDisk EISA Caching Controller up to 16MB	$389
FastDisk VLB VESA Local Bus Caching Controller	$393
FastLAN SCSI	$439

PROMISE TECHNOLOGY,INC.



SCSI CONTROLLERS

MODEL	DESCRIPTION	PRICE
DC-440	VLB SCSI-2 BUS MASTER w/ IDE Interface	$199

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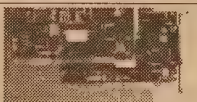

FULL KITS W/DRIVERS FOR CD-ROM/OPTICAL... ETC.

SCSI CONTROLLERS

MODEL	DESCRIPTION	PRICE
T228	MICROCHANNEL, 7HD	$139
T338	PARALLEL PORT to SCSI ADAPTER	$99
T348	PARALLEL PORT to SCSI PLUS	$149
T358	Parallel Port to SCSI Plus Enhanced	$189

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ASPI Device Drivers For: **$49**
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SCSI CONTROLLERS

MODEL	DESCRIPTION	PRICE
IN2000	16 BIT 7HD/2FD "Easiest to use"	$175
IN2000PRO	With COREL SCSI	$215
AL1000	SCSI To PARALLEL	$159
AL1000PRO	Above With COREL SCSI	$185

TekrAm Enhanced IDE PCI

MODEL DESCRIPTION	PRICE
Enhanced PCI IDE CONTROLLER	$39

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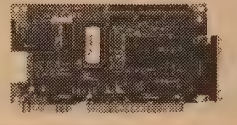

SCSI CONTROLLERS

MODEL	DESCRIPTION	PRICE
TMC850	8-BIT W/BIOS	$59
TMC1670	SVP 16-BIT SCSI VALUE PACK	$149
TMC1680	SVP 16-BIT VALUE PACK 7HD/4FD	$139
SCSI2GO	PCMCIA FAST SCSI-II TYPE II	$279

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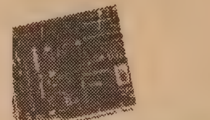

SCSI CONTROLLERS

MODEL	DESCRIPTION	PRICE
20	PCI SCSI Host Adapter, Sup. Wide SCSI-3	$219
40	PCI SCSI Host Adapter, Corel SCSI. Wide SCSI-3	$219

BUSLOGIC

SCSI CONTROLLERS

MODEL	DESCRIPTION	PRICE
BT545S	ISA Bus Master Fast SCSI Adapter Kit	$208
BT445S	**Bus Master Fast SCSI Kit for VL Bus**	**$199**
BT742A	EISA Bus Master SCSI-II Adapter Kit	$329
BT747S	EISA Bus Master Fast SCSI	$364
BT757S	FASTWIDE SCSI CARD	$369
BT946C	Bus Master Fast SCSI for PCI Local Bus	$239

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SCSI-2 VL BUS MASTER

- 32-bit, 120MB/sec. burst mode
- 10MB/sec. synchronous on Fast SCSI
- SCSI II, Bus Master DMA

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AdvanSCSI *Gold Network Kit*

- ABP-842 VL to SCSI 2 host adapter with floppy controller
- AdvanWare configuration/installation software
- COREL SCSI Network manager
- NOVELL NetWare Utilities for RAID 4 & 5
- Internal ribbon cable, VHS video installation guide
- User's manual

$369

AdvanSCSI *Silver Multi-Media Kit*

- ABP-842 VL to SCSI 2 host adapter with floppy controller
- AdvanWare configuration/installation software
- COREL SCSI Version 2
- Internal ribbon cable, VHS video installation guide
- User's manual

$229

IDE CONTROLLERS

NCA'S STANDARD IDE

IDE CONTROLLERS

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200	2HD/2FD CONTROLLER W/CABLES	$14
211	2HD/2FD W/2 SERIAL, 1PAR, 1GAME	$23
NCL53	SMART CONT. W/BIOS EASY INSTALL	$49
223	**2HD/2FD for VESA LOCAL BUS I/O**	**$59**

BUSLOGIC

IDE CONTROLLERS

MODEL	DESCRIPTION	PRICE
BT510A	IDE Cache Contoller For PC/AT Sys.	$89
BT410A	IDE Cache Controller for VLB	$129
BT910A	IDE PCI Cache Controller	$169

PROMISE TECHNOLOGY,INC.

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MODEL	DESCRIPTION	PRICE
DC-200	ISA IDE 4HD/2FD, 2.88MB FLOPPY SUPPORT	$89
DC-420VLB	VESA IDE 512K CACHE	$99
DC-4030VL-2	VESA IDE 2.88MB SUPPORT 4HD/2FD	$109
DC-200M	ISA IDE 512K CACHE 4HD/2FD 2.88 SUPPORT	$99
DC2032	ISA Caching Controller	$139

IDE CONTROLLERS

gsi

MODEL	DESCRIPTION	PRICE
GSI Model 11	8-bit Four FDD & TAPE ACC. CARD	$79
GSI Model 18	16-bit Primary or Secondary IDE	$49
GSI Model 21	16-bit IDE Accelerator Brd.	$59
GSI Model 32	16-bit MULTI-PORT IDE I/O ACC.	$129
GSI Model 4C	16-bit Four Channel, Eight-IDE	$149

DATA TECHNOLOGY CORPORATION

IDE CONTROLLERS

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DTC 2278AS	VESA Multi I/O 2s/1p/1g	$39
DTC2277VLL	VESA Caching IDE Controller	$149
DTC 2280	16-Bit Super I/O 2FD/2HD 2s/1p/1g	$19.99

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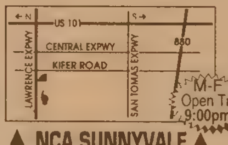

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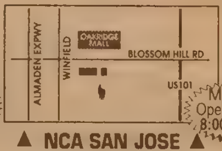

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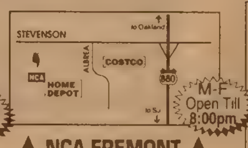

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- •Connect up to 7 SCSI devices
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- •Advanced SCSI programming interface compliant, disconnect/reconnect, synchronous & asychronous data transfer

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NEW!

Complete 32-bit VL-to-Fast SCSI & VL-to-EIDE host adapter

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- •Up to 2 standard and 1 floppy tape drive
- •Adaptec EZ-SCSI lite software
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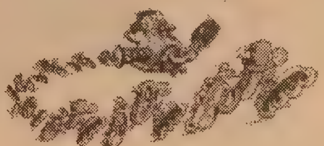

- •20MB ETR
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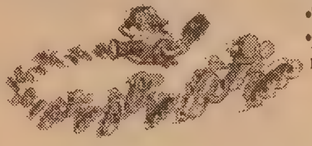
IDEAL *Controller*



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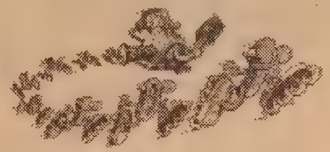

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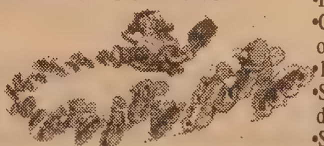

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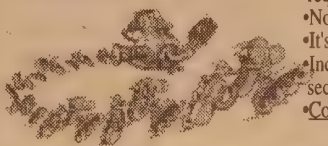
IDEAL *Enhancer*



- •Increase hard drive performance by 40-80%
- •Plug-n-play for easy installation-NO software required
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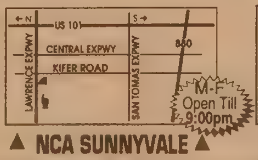

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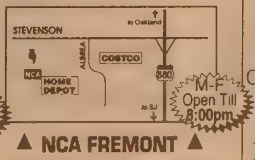

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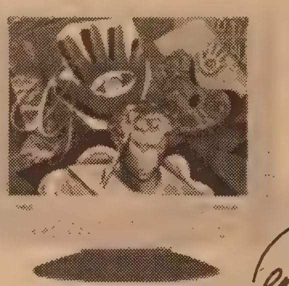

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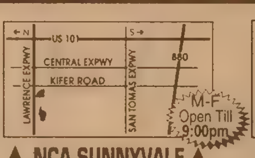

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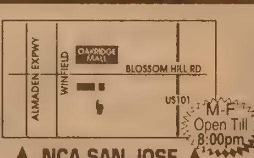

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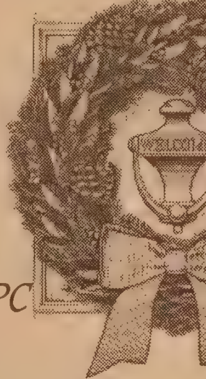
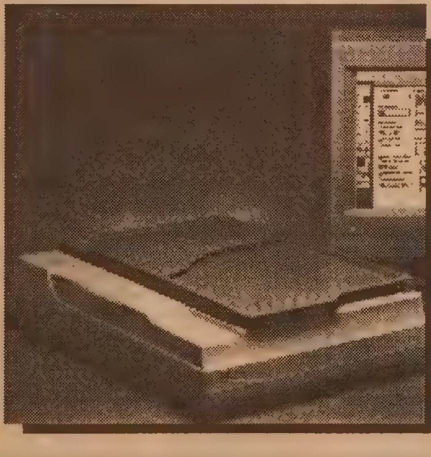
- Art-Scan professional scanning software
- SCSI cable & terminator
- Standard Power cord

Optional Document Feeder....$399



Baby Alex's picture was scanned at 600dpi using the Relisys scanner and saved as a TIF file.



The Reli 4816(T) One Pass Color Scanner

- One Pass Scanner
- High Resolution up to 4800 dpi by interpolation (True 1600 X 400)
- 16.8 Million Colors & 256 grayscale levels
- Cold-scan technology
- Maximum Scanning area 8.5" X 14"
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- Twain compatable
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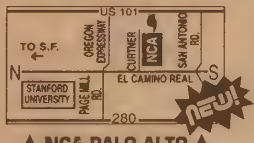
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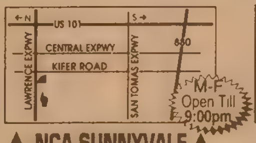
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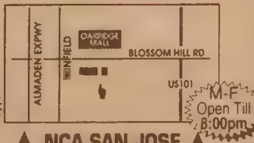
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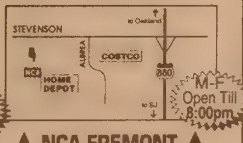
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- De-screening, Auto-density adjustment, filtering function
- Choice of two exciting software bundles
- TWAIN compliant
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Omni Page Direct	Omni Page Direct
SCSI int. card & cable	SCSI cable & terminator
Standard power cord	Power cord
Twain Driver	

$555.95

UC-1260

High Resolution Color Scanner

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PC Software	MAC Software
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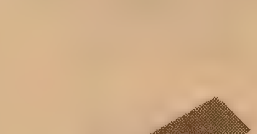

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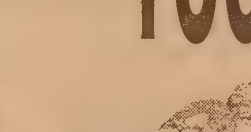

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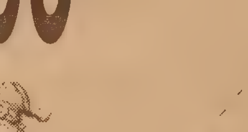

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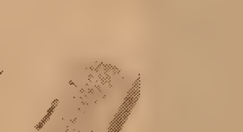

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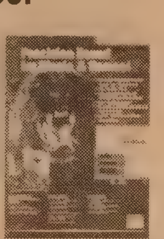

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Graphic Card, Video Scaling, Video Capture & TV Tuner All in One!

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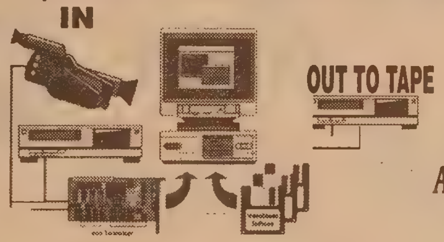

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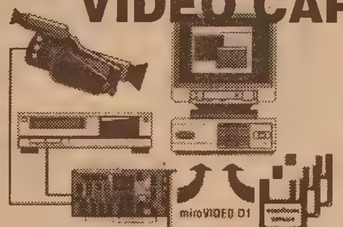

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- Supports all video standards
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SUPER VALUE!

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S3 86C805 Graphics Chip with 1MByte Highspeed DRAM
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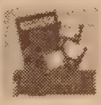

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65,536 Colors in 1024X768 pixels mode
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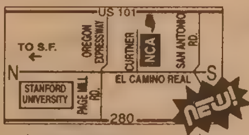

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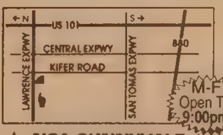

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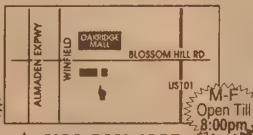

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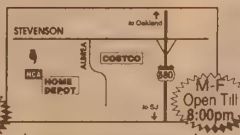

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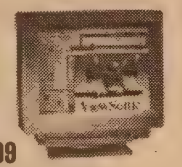

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- 1024X768
- Non-Interlaced

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ViewSonic-15E 1024 x 768 ....$379

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- 17" RGB Color Monitor
- 1280X1024 , .27dpi
- Non-Interlaced
- Flat Screen

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- Non-Interlaced
- Dual Page Display

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- .31dpi
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- Flat Screen

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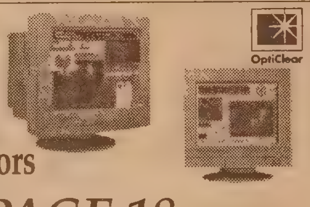

MultiSync Monitors

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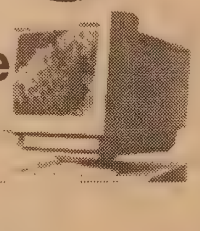

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- 1280X1024,
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- M1564PD

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17" SVGA

- 1600X1280
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- Non-interlaced
- "The Green Monitor"
- **Low Radiation**
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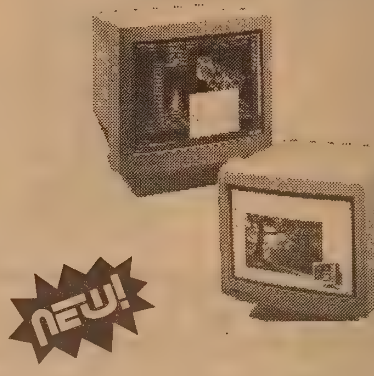

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SONY

GPD-15SF

- 15" Color Monitor
- Max Res. 1280X1024 .25dpi
- Non-Interlaced

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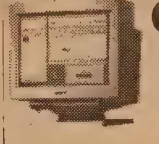

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- Max Res. 1280X1024 .25dpi
- Non-Interlaced

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GDM20SE

- 20" Color Monitor
- State of the art
- 1600X1200
- .30dpi
- Non-Interlaced

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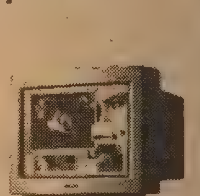

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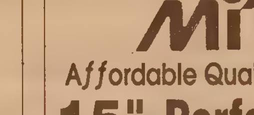

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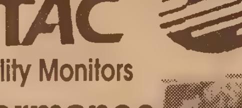

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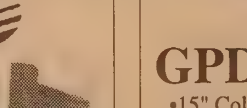

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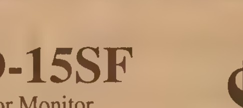

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PAGE 25

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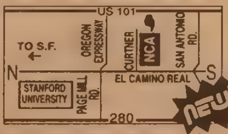

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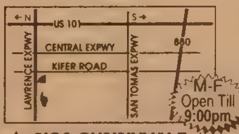

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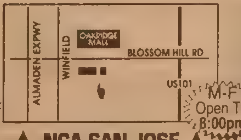

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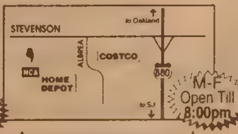

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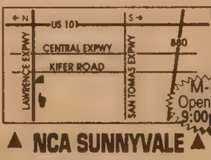
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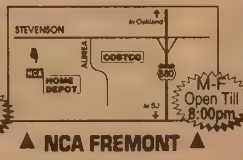
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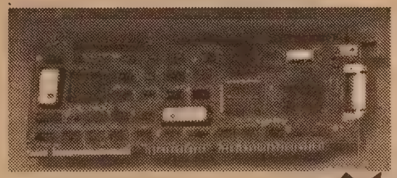
16.7 Million Colors



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NEXT GENERATION 64-BIT GRAPHICS

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- Display memory Expandable up to 4MB
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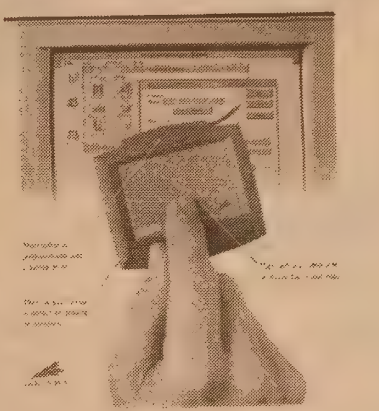

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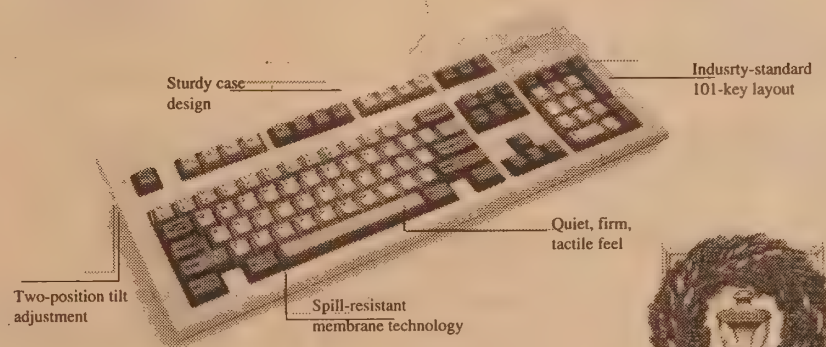
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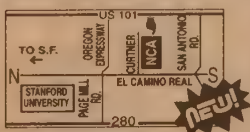
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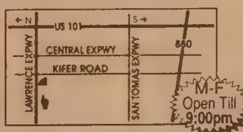
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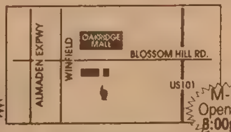
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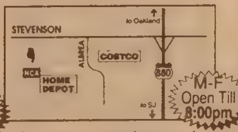
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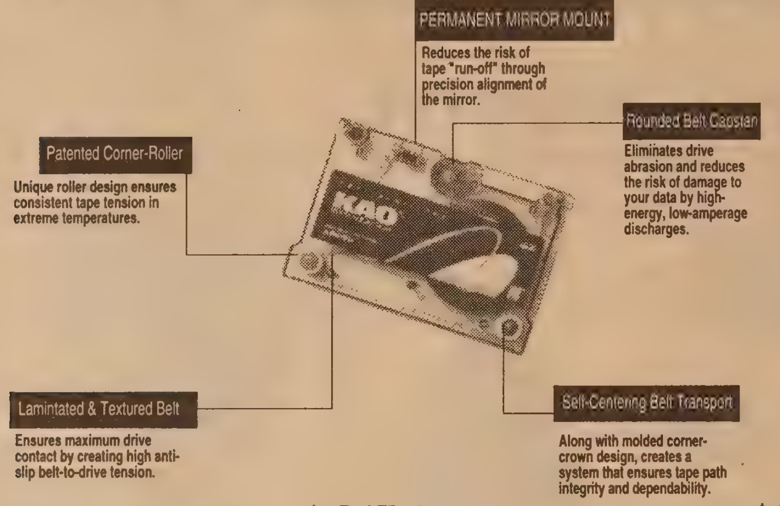
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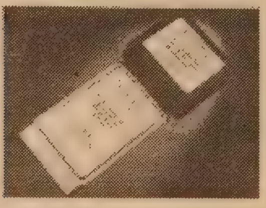

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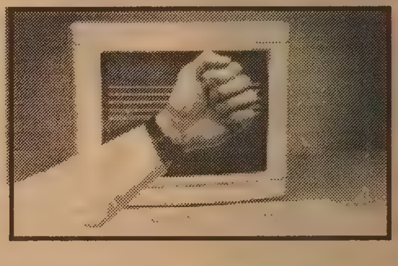

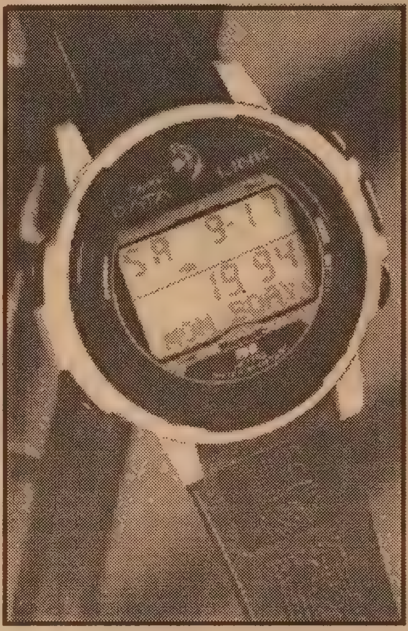

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Appointments-Stores time, date, and message of appointments, and beeps to remind you before each one.
Phone Numbers-Shows name and phone numbers for quick and easy access.
Anniversaries-Reminds the watch owner of an event with a string tied-on-a-finger icon.
To-Do-Lists-Lists tasks in a memo log sorted by priority.
Time Settings-Sets watch time directly from a PC and allows users to keep track of a 2nd time zone.
Alarms-Presets up to five alarms a day, manually or by downloading from the PC.

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TRADITIONAL WATCH FEATURES

•**INDIGLO** night-light with NIGHTMODE illuminates the entire watch display with a uniform bright light in low light conditions.
•Shows hours, minutes and seconds with 12/24 hour format option.
•Water resistant up to 100 meters.
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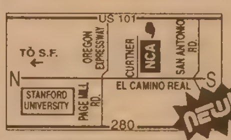
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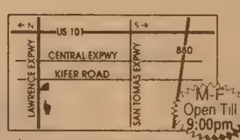
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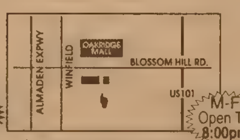
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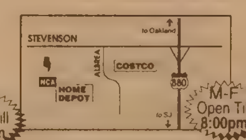
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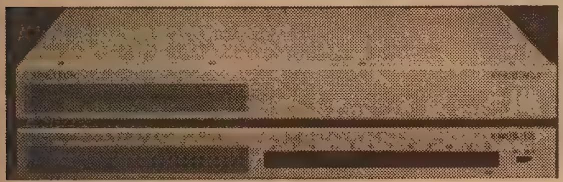

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Simply the lowest priced 8 port concentrator for twisted pair (10Base-T) wiring. Each port has a diagnostic LED which indicates link integrity and data send/receive. A bnc port lets you cascade hubs, or connect to your existing thin wire network.

XI-4T8

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12 PORT SNMP CONCENTRATOR

Intelligence for even the simplist network. The XI-4T12 gives you 12 10Bast-T ports, 1 AUI or BNC port with an exhaustive list of indicators on the front panel which can detect network errors, station lock-ups & traffic jams. Port 12 has an IN/OUT switch for daisy-chainning hubs via twisted-pair wiring without you having to build crossovers cables.

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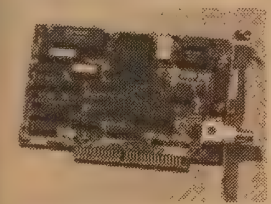

VESA LOCAL BUS ETHERNET COMBO CARD

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SMC

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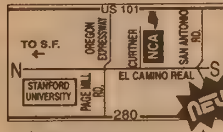

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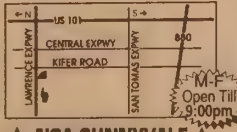

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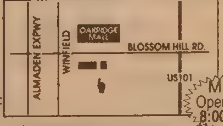

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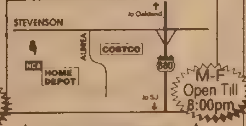

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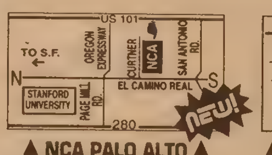
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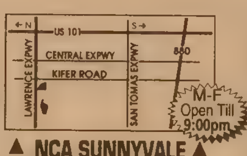
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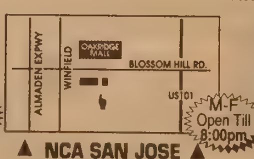
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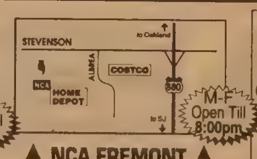
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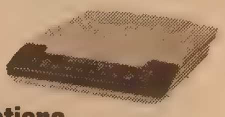

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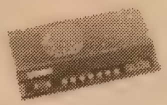

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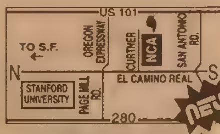

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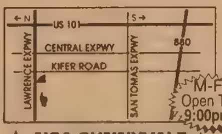

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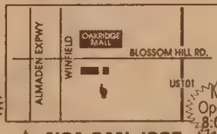

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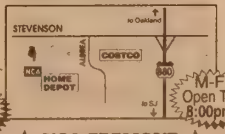

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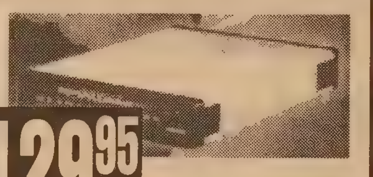

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- Software Included:
  Microphone LT, FAXcilitate™
  CompuServe Information Manager™
- Cables and Manual.

NEW!

$\$249^{95}$

14.4PB Int. MAC

14.4 Fax/Modem for PowerBooks

- 14,400bps FAX/DATA
- V.42bis/MNP 5 • 57,600 bps Max Throuput
- Caller ID, SilentAnswer™
- Works in PowerBook Models 100-180
- Software Includes:
  °Microphone™ LT
  °FAXstf™, °Compuserve
  °Information Manger™, °ARA Scripts • Manuals

$\$199^{95}$

28.8i PB internal for PowerBooks $\$299^{95}$

TDK

THE MOST ADVANCED,
HIGH QUALITY PCMCIA
CARDS AVAILABLE.

PCMCIA DATA/ FAX MODEMS

2400/9600 BPS PCMCIA

DATA/FAX MODEM

- 2400 BPS DATA & 9600 BPS FAX
- 16C550 UART FOR HIGH PERFORMANCE WINDOWS APPLICATION
- PCMCIA APPROVED 7-PIN CONNECTOR SYSTEM
- FREE CARRYING CASE
- TOLL FREE TECHNICAL SUPPORT
- 5 YEAR WARRANTY

INCLUDES QUICKLINK II SOFTWARE FOR DOS & WINDOWS!

$\$69^{95}$

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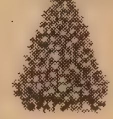
TDK Modem



14,400 BPS PCMCIA

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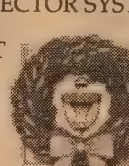
- 14,400BPS DATA & FAX TRANSFER RATES
- PCMCIA APPROVED 7-PIN CONNECTOR SYSTEM
- FREE CARRYING CASE
- TOLL FREE TECHNICAL SUPPORT
- 5 YEAR WARRANTY



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DATA/FAX MODEM

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- INCLUDES ULTRA HIGH SPEED WINDOWS INTERFACE
- CELLULAR READY WITH MNP10 ADVERSE CHANNEL PROTOCOL
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- FREE CARRYING CASE
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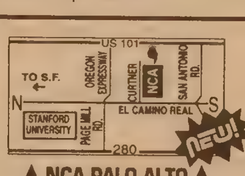
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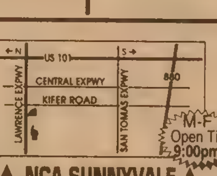
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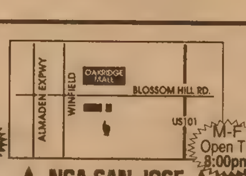
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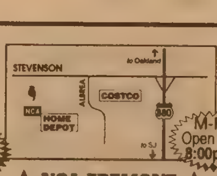
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QUALITY PRODUCTS

PRACTICAL PERIPHERALS®

14,400bps External Fax Modem

PM144MT II

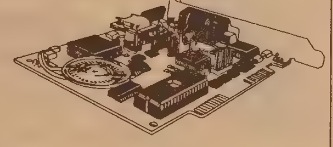
- 14,400 bps data and 14,400 bps send/receive fax modem
- 115,200 bps DTE plus V.42bis data compression
- Async only
- Quick Link II software

$149.95

14,400bps Pro Class Internal Fax Modem

PC144HC

- 14,400 bps data and 14,400 bps send/receive fax modem
- Leased-line operation
- 16550 Buffered UART
- "BONG" detection
- 115,200 pbs DTE plus V.42bis data compression
- Select IRQ 2-5
- Async and Autosync
- Quick Link II & WinFax Lite Software



$169.95

28,800bps Pro Class Internal Fax Modem

PC288MT V.FC

- 28,800 bps data and 14,400 bps send/receive fax modem
- Fast V.FC
- Upgradeable to V.34
- Leased-line operation
- 16550 Buffered UART
- 'BONG' detection
- 115,200 bps DTE plus V.42bis data compression
- Async, Sync and Autosync
- Quick Link II & WinFax Lite Software

$299.95

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IDEK

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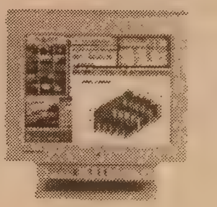
HI-RESOLUTION MONITORS

VISIONMASTER™ MF-8617

17"FST Monitor

- .26dpi
- 80hz refresh
- Digital control
- Anti-glare coating
- MPR II low radiation
- EnergyStar compliant
- Three Year Warranty



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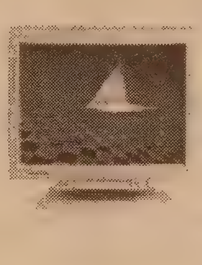
VISIONMASTER™ MF-8221

21"FST Monitor

- .28dpi
- DK Tinted Glass
- 1600X1200 resolution
- 24-85 KHz horizontal scan rate
- Microprocessor control
- Energy Star
- Auto contrast
- Color calibration
- Three Year Warranty

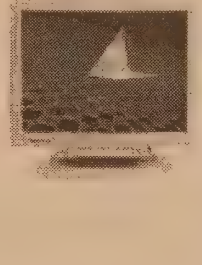


$1855.95

VISIONMASTER™ MF-8621

21"FST Monitor

- .26dpi
- A/R Bonded Panel
- 1600X1200 resolution
- 24-85 KHz horizontal scan rate
- Microprocessor control
- Energy Star
- Auto contrast
- Color calibration
- Three Year Warranty



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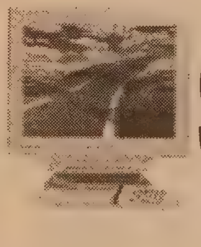
VISIONMASTER™ MT-9121

21"Color Monitor

- 21" Aperture Grill CRT (Hybrid Trinitron)
- 1600X1200 Resolution
- 72Hz refresh
- 24.8-92.0 KHz horizontal scan rate
- Microprocessor and Remote Control
- On screen display
- Color Temperature-3 Modes
- Convergence control
- VESA DPMS/Energy Star
- 3 Year Warranty



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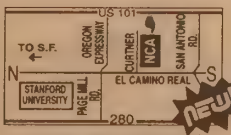
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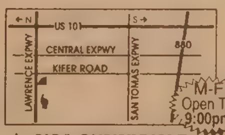
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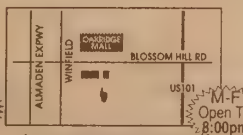
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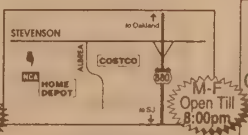
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NCA Introduces Our New Wireless Communications Division

ACTIVATE NOW & SAVE $50**

MOTOROLA

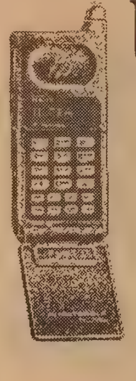
DPC-550

- Lightweight 12.1
- 75 minutes talk time
- 30 number memory
- Automatic redial
- Flip answer and end
- Call timer

$138.95*

*** With purchance of starter kit at $89.95 & after $25 instant activation rebate. Activation not required.**

MOTOROLA



Ultra Lite

- 5.9 ounces with battery!
- Optional VibraCall operatio
- Battery meter
- Noise cancelling microphone
- One touch emergency dialing
- Signal strength meter

$498.95*

*** With purchace of car adapter at $39.95 & after $25 instant activation rebate. Service activation not required.**

MOTOROLA

Attache

- FULL 3 WATTS OF POWER
- 70 minutes talk time
- 102 memory locations
- Incoming call screening
- Flip answer and end
- Call timer

$179.95*

*** After $25 instant activation rebate. Service activation not required.**

UNIDEN CLOSEOUT!

4600

WHILE SUPPLIES LAST!

- 99 # Alphanumeric memory
- Speed dialing
- Auto redial
- 1 year warranty
- Memory lock
- Battery level meter
- Signal strength meter

$119.95*

*** After $25 instant activation rebate & purchase of car adapter at $29.99. Service activation not required.**

MOTOROLA

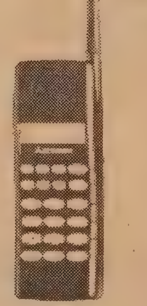
DPC-950

- Only 8.7 ounces
- 9 Turbo dial locations
- 30 memory locations
- Last number redial
- Battery provides 100 minutes of talk time
- Signal/volume meter

$298*

After $25 instant activation rebate. ;ervice activation not required.

MITUSBISHI CLOSEOUT!



3500

WHILE SUPPLIES LAST!

- Only 7.9 ounces
- 20 number memory
- 3 year warranty
- Battery level meter
- Signal strength meter
- Any key answer
- Call timer

$99.95*

*** After $25 instant activation rebate & purchase of car adapter at $59.99. Service activation not required.**

MOTOROLA ACCESSORIES ARE IN STOCK

MOTOROLA

BRAVO EXPRESS

- Small pocket size
- Musical alert
- Bright colored housings
- 12/24 hour timekeeping
- Automatic pager on/off
- Vibrate
- Message timestamping
- Message slot number
- Memory storage when off
- Front mount display

$88 BRAND NEW!

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MEMO EXPRESS

- **Alpha Numeric**
- Small pocket size
- Musical alert
- 12/24 hour timekeeping
- Automatic pager on/off
- Message timestamping
- Message slot number
- Memory storage when off
- Front mount display

$115 BRAND NEW!

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BRAVO PLUS

- Small pocket size
- Vibrate
- Message timestamping
- Message slot number
- Low battery indicator
- Backlighted display
- Freeze screen

$74 BRAND NEW!

NEC

AIRTOUCH™ Paging

The new name for PacTel

SPORT PAGER

- Small pocket size
- Vibrate
- Message timestamping
- Clock
- Low battery indicator
- Various alert options
- Duplicate message indicator

$45 BRAND NEW!

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More Than Cellular Phones, Cellular Service.℠

Service activation not required, no dealers or resellers. **Price includes $25 instant activation waiver with new GTE MobilNet activation on select plans & includes $25 instant equiptment rebate. Offer good thru October 19 through November 30, 1994. Bay area end users only.
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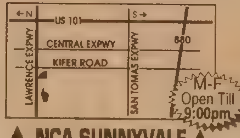

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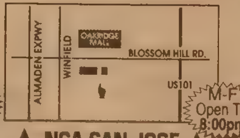

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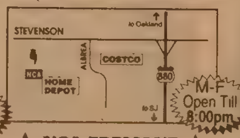

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AUTHORIZED RESELLER

DESKJET 520
InkJet Printer

- 600X300dpi inkjet technology with HP's Reolution Enhancement technology(REt) produces high-quality text and graphics at a dot-matrix price.
- Media flexibility lets you print on plain and glossy papers, envelopes, or transparencies.
- Water-resistant ink provides smudge-proof, signature-ready output.
- 3-year limited warranty offers the longest protection in the industry.
- DOS & Microsoft Windows 3.0 & 3.1 software support ensures compatibility with most popular software applications.

$275

DESKWRITER 520 for MAC $289

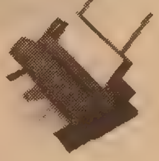
DESKJET 560
Color InkJet Printer

- 600x300dpi black printing with HP's Resolution Enhancement technology(REt) & 300dpi color produces high-quality output on plain paper.
- HP's ColorSmart makes color printing easy by automatically optimizing print settings to produce clear, vivid color.
- Twin-cartridge print mechanism eliminates cartridge swapping and prints true black and color on the same page.
- 3-year limited warranty offers the longest protection in the industry.
- 3-ppm print speed(black) is faster than most dot-matrix and inkjet printers.

$542

DESKWRITER 560 for MAC $542

DESKJET 310
Portable/Color InkJet Printer

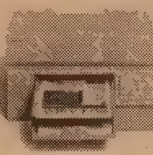


- 300dpi inkjet technology produces crisp, water-resistant black printing for high-quality text and graphics.
- Portable operation delivers full-featured printing on the desk or on the road
- Optional color kit provides bold, bright color output on plain paper and transparencies.
- Six bitmapped fonts create professional-looking documents in both portrait and landscape modes.
- 3-ppm print speed is the same as the HP DeskJet 520 printer and faster than most portable printers.

DESKWRITER 310 for MAC $299

$298

DESKJET 1200C
High Performance Color InkJet Printer

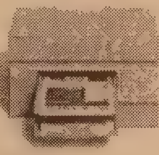


- 600X300dpi inkjet technology with HP's Reolution Enhancement technology(REt) produces high-quality output in both black and color(up to 16.7 million bold, brilliant colors).
- HP's ColorSmart makes color printing easy by automatically optimizing print settings to produce clear, vivid color.*
- *Up to 7ppm(black text) and 1-2mpp(color) print speed delivers fast, high-quality black and full-color output.
- HP LaserJet printer compatibility ensures complete document portability and allows sharing of printer accessories.
- Four high-capacity print cartridges with hig-gain ink provide longer cartridge life and very low cost per page.

*For non-Postcript files only

$1379

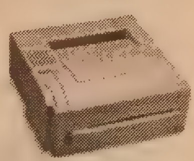
DESKJET 1200C/PS
High Performance Color InkJet Printer



- 600X300dpi inkjet technology with HP's Reolution Enhancement technology(REt) produces high-quality output in both black and color(up to 16.7 million bold, brilliant colors).
- Up to 7ppm(black text) and 1-2mpp(color) print speed delivers fast, high-quality black and full color output.
- Media flexibility supports both black and color printing on inexpensive plain paper and allows use of special media like glossy paper and transparencies.
- Four high-capacity print cartridges with high-gain ink provide longer cartridge life and very low cost per page.
- PostScript Level 2 software from Adobe with 35 Adobe Type 1 typefaces and HP JetDirect card for LocalTalk ensure compatibility with virtually all Macintosh computers and software.

$1999

LASERJET 4L
Personal Laser Printer



- HP's Memory Enhancement technology(MEt) effectively doubles printer memory for more complex documents and downloaded fonts.
- HP's Resolution Enhancement technology (REt) and microfine toner produce the best 300dpi output available.
- EconoMode printing saves money by cutting toner use in half.
- One-button front panel makes printer easy to use.
- Intelligent on/off saves electricity by automatically turning printer on and off as needed.

LASERJET 4ML for MAC $958

$635

LASERJET 4P
Personal 600dpi Laser Printer

- 600dpi with HP's Resolution Enhancement technology(REt) and microfine toner produces the best 600dpi output available.
- Custom media handling accepts paper as small as 3 by 5 inches and up to 42 pound thickness.
- 45 scalable typefaces-from .25 to 999 points-create a wide variety of professional-looking documents.
- Full range of expansion options including additional memory(up to 26mb), Adobe PostScript Level 2 SIMM, and HP JetDirect EX network interface.
- Saves money with EcononMode printing that cuts toner use in half and Powersave that uses 50-70% less energy(EPA Energy Star program approved)

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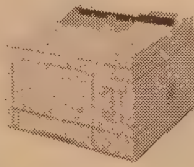
LASERJET 4MP for MAC $1399

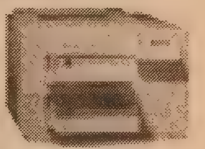
LASERJET 4PLUS
High Performance Laser Printer



- RISC-based processor delivers fast, 12ppm performance, even for complex documents.
- HP's Resolution Enhancement technology(REt) and microfine toner produce the best 600dpi output available.
- 45 scalable typefaces create a wide variety of professional-looking documents.
- Up to four software-selectable paper inputs handle up to 850 sheets and 75 envelopes.
- Automatic language and I/O switching provide easy, unattended operation in multiple-platform environments.

$1396

LASERJET 4Si
Laser Printer For Workgroups



- 17ppm print speed and 75,000 page monthly duty cycle meet the high-volume demands of large workgroups.
- True 600dpi resolution with HP's Resolution Enhancement technology(REt) and microfine toner produces the best 600dpi output available.
- Up to three software-selectable media inputs handle up to 2,000 sheets and 100 envelopes.
- Automatic switching between enhanced HP PCL5 and optional Adobe PostScript Level 2 languages gives easy, unattended operation in multiple-platform environments.
- HP Vi-Tronics(high-speed bi-directional) parallel interface and optional HP JetDirect cards provide powerful, flexible networking.

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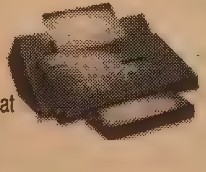
FAX-950
Plain Paper Fax Machine



- Hp inkjet technology creates plain-paper faxes that look better, cost less, and won' curl or fade.
- 1-year HP Express Exchange warranty is longer than most fax machines' warranties.
- Smoothing technology delivers maximum output quality regardless of original fax resolution.
- User-upgradeable memory allows easy expansion for improved memory transmission, out-of-paper reception, and other advanced functions.
- Verification stamp creates a visual record of successful transmission.

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SCANJET IIcx
Scanner

- 1600dpi enhanced resolution(400dpi optical) produces highly accurate scans of line art, images, and text.
- ONe-pass, 24-bit color scanning produces fast, accurate scans in over 16 million colors.
- New HP AccuPage 2.0 technology makes third-party OCR software even more accurate by recognizing text as small as 4-point type.
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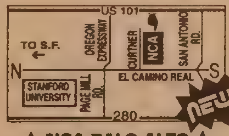

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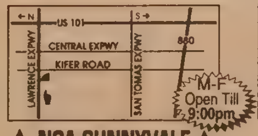

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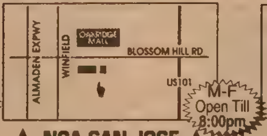

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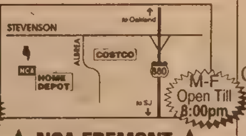

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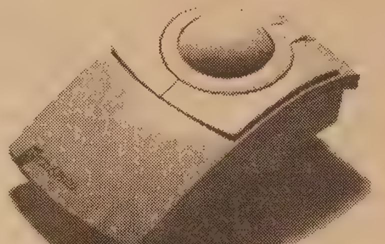

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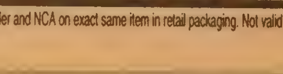

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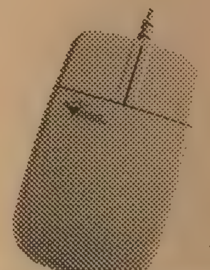

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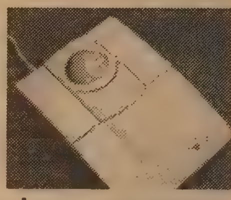

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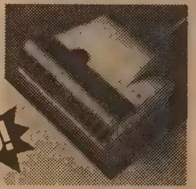

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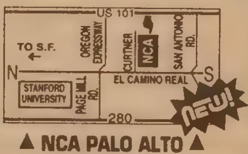
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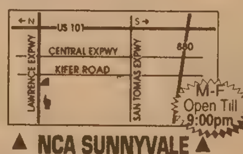
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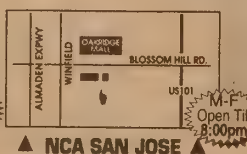
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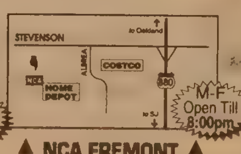
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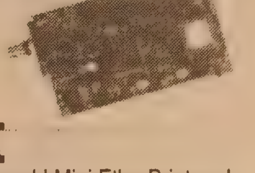

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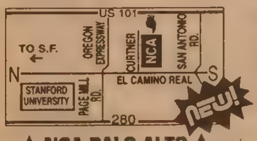

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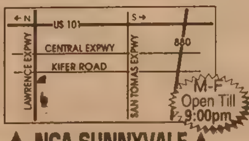

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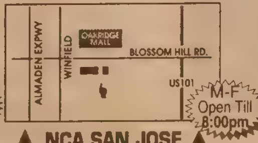

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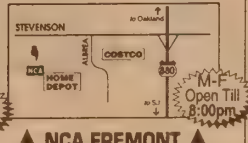

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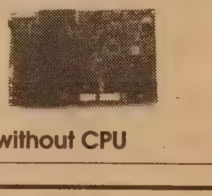

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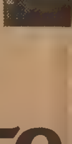

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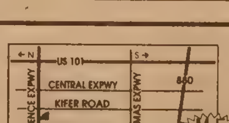

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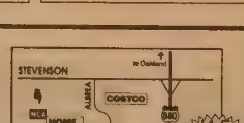

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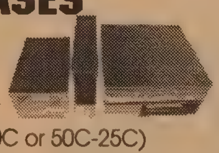

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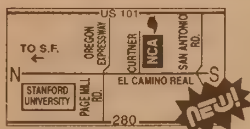

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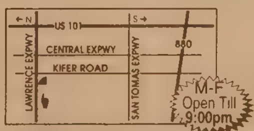

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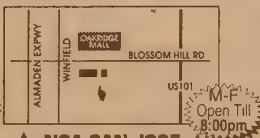

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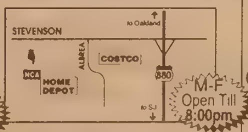

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knowledge adventure

continued from page 52

How do you keep that control with VC investors? Losing that degree of control seems to be the usual fare in this industry.

Two ways. One is that our outside backers have fully supported the methods and implementation we have had at this company. They haven't come in and said, "You need to do it this way because we are backing you." They have come in and said, "We think you know what you are doing and we don't want to mess with any of it." We have been very lucky to find people with that open minded of a view.

The other way we have been able to do this has been numerically. Everyone in the company has equity. That has been a great moral and spirit builder, but it has also made it so that there is a significant amount of equity controlled by the actual employees of the company, such that the backer can't dictate to us how to run the company.

New employees still have their choice of equity vs. pay?

Every employee in the company has the choice of lower salary with more equity or a higher salary and less equity. That gives everyone the chance to make their own personal trade-off of what they can afford.

What would you summarize as your keys to success during these difficult economic times?

Sharing the equity with everybody in the company has been a critical thing for success in this business. Definitely being passionate about what you are doing. I think the only reason we succeeded is because we all care so much about what we are doing. This is a very tough business to be in, even though it's growing fast there are a lot of tough competitors. I don't think we would have had the stamina to compete if we weren't passionate about the actual products we were creating. I would say that another area of success is being in an industry that is growing very fast, but for us that was just a lucky guess. We didn't really plan that. And for us it's been a great success to continually go back and refine our products and make them better and better each year. But to me, I feel that is kind of obvious. I wouldn't really recommend that as something that you need to do for success. If you don't do that you can't even think about succeeding. ■

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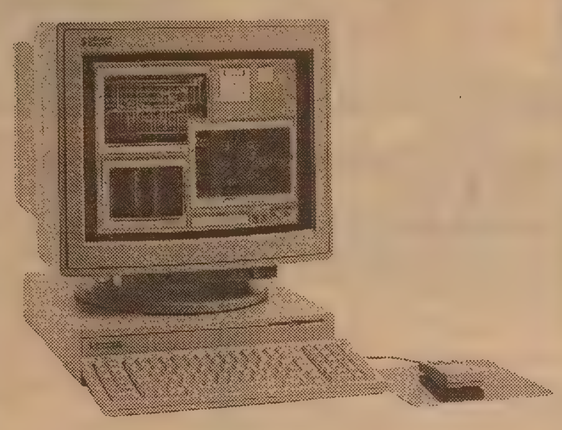

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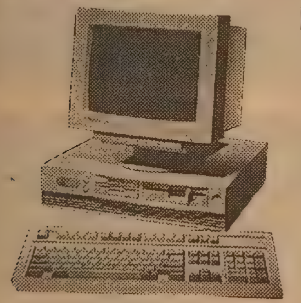

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- 420 MB HD, Teac 1.2 & 1.44 MB FD
- PCI or VLB IDE Controller with 2S/1P
- Local Bus 1MB SVGA Card (S3805)
- 15" .28 NI SVGA Monitor
- Microsoft Serial Mouse
- Keytronics 101-Key Keyboard

IDEK MF-8617 17" Monitor

- 17" Flat Screen
- .26mm Dot Pitch
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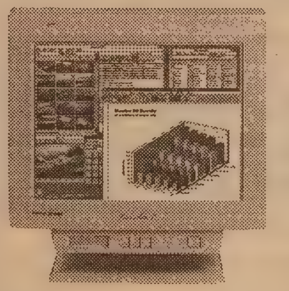

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Monitor/Video Cards

Cardex ET4000 VLB 1MB	$95
Cardex ET4000/W32PVLB/1/2MB	110
Orchid Kelvin VLB 1MB	139
ATI Ultra Pro 2MB/VLB/PCI	230
Diamond Stealth 64 2/4MB DRAM	185/340
14" NI SVGA (.28mm) Monitor	215
15" NI Monitor NEC Tube (72Hz)	289
ADI 17" (1280x1024 .26mm Dot Pitch)	720
Hitachi 20" (1280x1024 .31mm Dot Pitch)	1335

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Wangtek 500MB SCSI 1/4" Tape Drive	450
Wang DAT 3400 8 GB 4mm DAT Drive	1075
Wang DAT 3200 4-GB 4mm DAT Drive	795
Exabyte 8505 5-10 GB 8mm Tape Drive	2075
Exabyte 8205 2 GB 8mm Tape Drive	1375

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Adaptec 2940 PCI SCSI Controller w/Kit	$275
Adaptec 2842 Local Bus SCSI Controller w/Kit	255
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Adaptec 2742A EISA SCSI Controller w/Kit	365
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Bus Logic 946S PCI Controller	275
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Sony 33A (AT BUS)	135	Sound Blaster SCSI II	120
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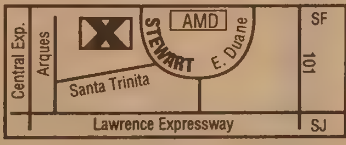

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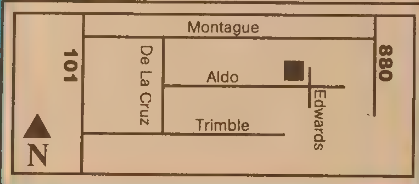

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- 101 Enhnaced Keyboard
- DELUXE Mini Tower w/**UL 230W** Power Supply

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- S3 Windows Accelerator VLB Video Card w/ 1MB
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- EPA "ENERGY-STAR" Power Management **(GREEN PC)**
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- **540MB** IDE Western Digital Hard Drive
- **Fujitsu** 101 Enhanced Keyboard
- Ultra Medium Tower Case w/ **250W (UL)** Power Supply

Green Python IV	**486DX4-100** (Intel)	**$1898**
Green Python IVA	**486DX2-80** (AMD)*	**$1608**
Green Python III	**486DX2-66** (Intel)	**$1498**

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- NEC 1.44MB 3.5" Drive
- **540MB** IDE Quantum Hard Drive
- **PCI IDE** Hard Drive Controller
- **Hi Speed Serials**
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- **PCI IDE** Controller
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- ▲ Intel 486 Processor
- ▲ ZIF SOCKET (zero insertion force)
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- ▲ **8MB** 72-Pin RAM Installed **High Speed 60NS**
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- 101 Keyboard
- Mini Tower Case w/PS

IBM 486SLC-66 /64K $817

IBM 486BL-75 /256K $871

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- 1 MB VL VGA Card
- 101 Keyboard
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INTEL: 486DX-33 $1088

INTEL: 486DX2-66 $1188

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Teac 1.44 FDD	32
256K VGA Card	24
512K VGA Card	35
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1 MB VLB Card	63
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16 Bit NE2000 BNC	26
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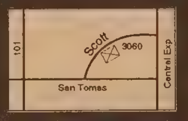

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510MB HD	$246	Microsoft OEM Mouse	$27

System Parts: Motherboard & CPU, 1MB RAM, Mini Tower Case, 230 Watt PS, 101 Enhanced Keyboard, 1.2 or 1.44 Floppy Drive, Controller Card, 2S/1P/1G I/O Ports, 14" SVGA Monitor, 1 MB VGA Card. 1 Year Parts and Labor Warranty on systems. All Prices subject to change with out notice.

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Product Reviews

continued from page 170

dred pages) of OS/2 tips, tricks, and secrets, assembled by an OS/2 maven who tells you all the things IBM left out of the manuals. The book covers installation options, how to set up an OS/2 maintenance partition, *all* of the system options in config.sys (and how to tweak them for maximum performance). The section on the Workplace Shell shows a number of neat tricks you can do with the settings options: for instance, display multiple mini-views of the desktop while an application is running full-screen. You'd never know that you can do this from reading IBM's online help. The book also includes extensive sections on managing DOS and Windows applications, setting up and administering networks, working with multimedia, finding and installing SVGA display drivers, printing and font management, and the OS/2 productivity applets.

OS/2 Unleashed includes a CD-ROM disk with over 600MB of OS/2 shareware: alternate command shells, system utilities, communications programs, graphics and screen capture, multimedia, word processors, and REXX utilities. The last chapter is a 100-page listing of worldwide BBS numbers with profiles of each system by sysop, primary focus, and author's comments on each. (SAMS Publishing, Inc., 201 W. 103rd St., Indianapolis, IN 46290)

THE INTERNET RESOURCE QUICK REFERENCE

Written By: William Tolhurst and Mary Anne Pike
Published By: Que
List Price: $17.99
Reviewed By: Kevin Savetz

The *Internet Resource Quick Reference* is any publisher's dream: collect a bunch of free resources from the Internet, write a few pages of introductory material, send it to press, and sell it for $18 a pop.

Perhaps that wouldn't be so nauseating if the information therein was difficult to obtain. This book, however, is intended for those who are already familiar with the basics of operating the Internet (it says so right in the three-page introduction). If you're already familiar with the Internet, this information is not difficult to obtain—in fact, it is some of the most readily available stuff out there.

With that in mind, what is in this book?

It starts with the Usenet newsgroup list. You can get this list via FTP at ftp.uu.net in /networking/news/config/newsgroups.Z . Your savings: $5.63.

Next up is the list of publicly accessible electronic mailing lists. You can get it via FTP from rtfm.mit.edu in /pub/usenet/news.answers/mail/mailing-lists or on the Usenet newsgroup news.lists . Your savings: $9.00.

There's also the Special Internet Connections List, by Scott Yanoff. You can find out how to get that by fingering yanoff@csd4.csd.uwm.edu . You save: 70 cents.

And, there's the Inter-Network Mail Guide, also

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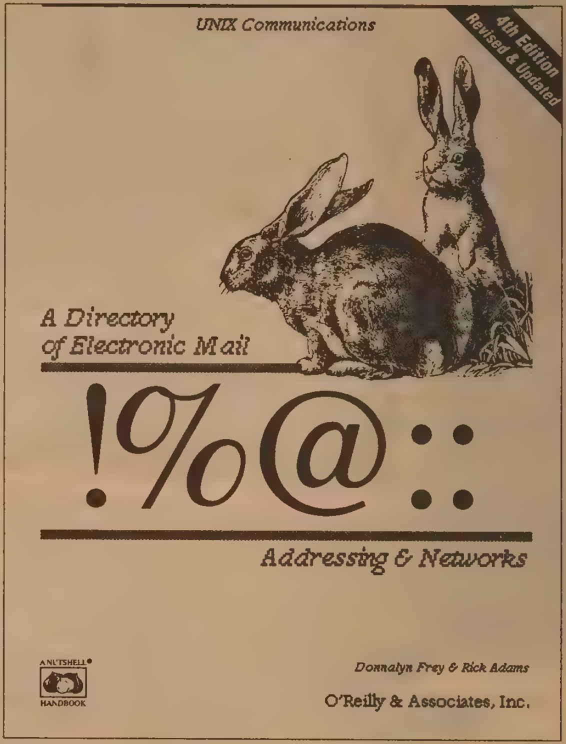
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The Best Guide to
Business Shareware

THE BEST GUIDE TO BUSINESS SHAREWARE

by Scott Yanoff. Also available via FTP at csd4.csd.uwm.edu in /pub/internetwork-mail-guide . Your savings: another 70 cents.

The only redeeming part of this book is the 46-page Host Resource Guide, a listing of a few good FTP sites, gopher sites, and special interest topics. This is the only thing that doesn't appear to have been filched from the Net, so I can't tell you where to get it for free. I will, however, save you that last $1.96 by pointing you to an even better online resource: John December's "internet-cmc" list, which you can get via FTP from ftp.rpi.edu in /pub/communications/internet-cmc.txt .

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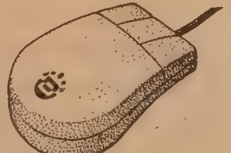

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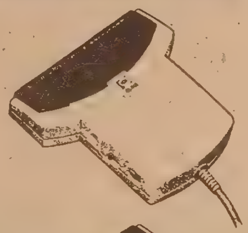

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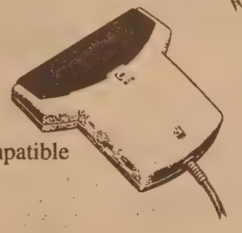

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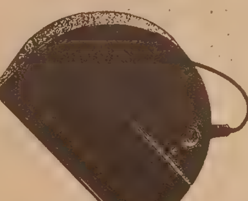

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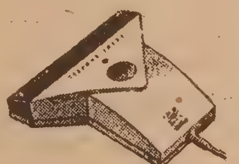

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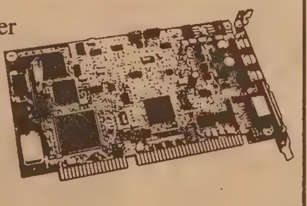

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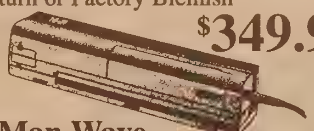

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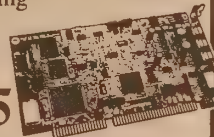

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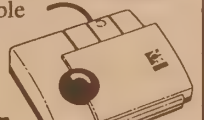

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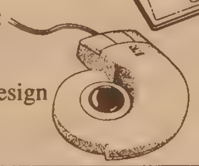

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The information in *The Internet Resource Quick Reference* is certainly worth $18, no doubt about that. Anyone with an Internet connection can get it for nothing, though, so save your money. (Que Corp., 201 W. 3rd. St., Indianapolis, IN 46290. 1-800-428-5331)

!%@:: A DIRECTORY OF ELECTRONIC MAIL ADDRESSING AND NETWORKS, FOURTH EDITION

Written By: Donnalyn Frey & Rick Adams
Published By: O'Reilly & Associates
List Price: $9.95
Reviewed By: Kevin Savetz

This tome easily gets the award for best title of an Internet book. *!%@::* (which I pronounce bang-percent-at-colon-colon) is a reference book of information related to electronic mail.

It starts with a short (20-page) introduction to electronic mail. The next 320 pages give information about 190 major networks that are somehow linked to Internet via electronic mail (ranging from sites you have heard of, like America Online, to ones you probably haven't heard of, such as the Hungarian Academic and Research Network). The next 270 pages are a comprehensive listing of email subdomains—listing zillions of company names and their corresponding domain names. (For instance, Apple Computer's domain name is apple.com .) The last few pages include a glossary and a list of electronic mail country codes.

Frankly, most of us don't need this information. Site administrators probably don't need this info, and all but the most curious Internet users can also do without it.

This book, which is thick and heavy and features hares (that's right, hares!) on the cover, looks like it should cost $25 or so. O'Reilly & Associates just lowered the price to $9.95, which is a more reasonable price given the material in it. (O'Reilly & Associates, Inc., 103 Morris St., Suite A, Sebastopol, CA 95472. 1-800-998-9938)

THE BEST GUIDE TO BUSINESS SHAREWARE

Written By: Judy Heim, John Heim, and Mike Callahan
Published By: Osborne McGraw-Hill
List Price: $34.95
Reviewed By: Lenny Bailes

Some people think that the golden days of shareware are gone forever, but this book provides a convincing argument to the contrary. In addition to a basic introduction to the shareware concept and some advice on how to prowl bulletin board systems, the book largely does your prowling for you. There are one-paragraph thumbnails of hundreds of productivity applications, DOS and Windows utilities, indexed

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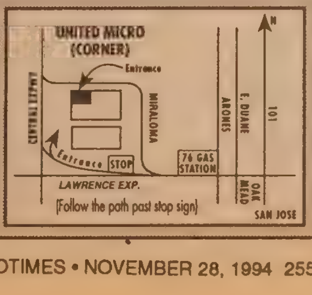

Product Reviews *continued...*

into appropriate chapter divisions. This isn't a rehash of five-year-old stuff that's grown stale in the current era of Windows. Programs like NeoPaint, Graphic Workshop, PC-Flow, FormGen, and others are as useful and powerful as many commercial applications. The review categories range from traditional word processor/spreadsheet/database packages, to project planners, accounting/payroll. Some of the DOS and Windows system utilities covered by the authors are particularly useful: antivirus software, Windows plug-in file managers, file viewers, data recovery, and diagnostic utilities—this is the area where shareware programmers really excel, often providing useful tools that eventually find their way into commercial packages distributed by corporate players. Two 1.4MB diskettes distributed with the book contain a sampling of basic utilities and a telecommunication package to let you do your own BBS prowling.

Coauthor Mike Callahan is a celebrated BBS junkie and shareware connoisseur—well-known in certain circles as "Dr. File Finder." He and the other two coauthors have assembled a volume that can save you many hours of searching for and testing the shareware cream of the crop. (Osborne McGraw-Hill, 2600 Tenth St., Berkeley, CA 94710)

TAKING FLIGHT—HISTORY, FUNDAMENTALS AND APPLICATIONS OF FLIGHT SIMULATION

Written By: Christopher Watkins and Stephen Marenka
Published By: M&T Books
List Price: $29.95
Reviewed By: Kevin Savetz

Flight simulators have always fascinated me. From the first time I played with Flight Simulator II on an Apple II (featuring chunky wire-frame buildings and runways) to the colorful, high-speed animated version that lives on my Mac today, the idea of flying through a simulated world is captivating. Flight simulation buffs will enjoy this book

Taking Flight—History, Fundamentals and Applications of Flight Simulation begins with a short history of (real) flight, and then takes off into a history of flight simulators. It focuses on military applications of flight simulation—"real" flight simulation—rather than the software toys I played with on the Apple computer. Next, the book gets serious, explaining concepts such as fluid mechanics, aerodynamic drag, propellers, rocket engines, and cockpit resource management. *Taking Flight* serves as a good introduction to the basics of flying in real life as well as in virtual space. These subjects can be a bit dry, but authors Watkins and Marenka have made them rather intriguing.

The bulk of the book looks at flight simulators themselves and the theory behind them. Again, the authors pull no punches in explaining concepts from polygon projection and antialiasing to hidden surface removal and simulation of controls and gauges. The accompanying disk includes source code for a simple flight simulation program for PCs and an explanation of how it works.

Although I am disappointed it deals almost entirely with high-end flight simulators rather than

continued on page 260

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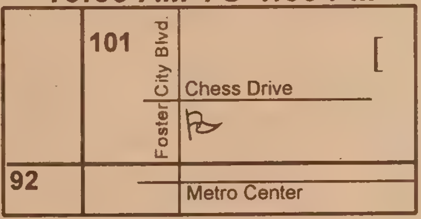

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Product Reviews

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more pedestrian ones (like on my Mac), *Taking Flight* provides a detailed look into the history, present and future, of flight simulation, heavy on theory but remarkably readable nonetheless. (M&T Books, a subsidiary of Henry Holt and Co., 115 W. 18th St., New York, NY 10011. 212/886-9200)

USENET: NETNEWS FOR EVERYONE

Written By: Jenny A. Fristrup
Published By: Prentice Hall
List Price: $24.95
Reviewed By: Kevin Savetz

Usenet: Netnews for Everyone, a guide to accessing and using Usenet newsgroups, promises to teach the reader how to "meet and communicate with others who share your interests" and "expand your personal and professional contacts." It only vaguely holds true to these promises.

As is too often the case with Internet books, *Usenet: Netnews for Everyone* combines a modicum of new information with gobs of easily obtained free material. Specifically, the book includes a decent (but short) introduction to Usenet, including info on its community and conventions. But the majority of the book is an enormous listing of Usenet newsgroups and the FAQs that live in each—information that can easily be found online. It also reprints several general Usenet introductions that are available online (for free).

The book doesn't cover some of the most essential basic information. It doesn't touch on how to find a service provider who will feed you Usenet, or how to use rot13 to decrypt text, or how to decode binary files that are so often posted to Usenet.

Unfortunately, the best part of the book is the briefest: a list of popular newsreaders (along with descriptions) and command summaries for three programs for reading news. If this book offered more of this type of information rather than rehashed online freebies, it would be worthwhile indeed. (Prentice Hall, 201 W. 103rd St., Indianapolis, IN 46290. 1-800-428-5331)

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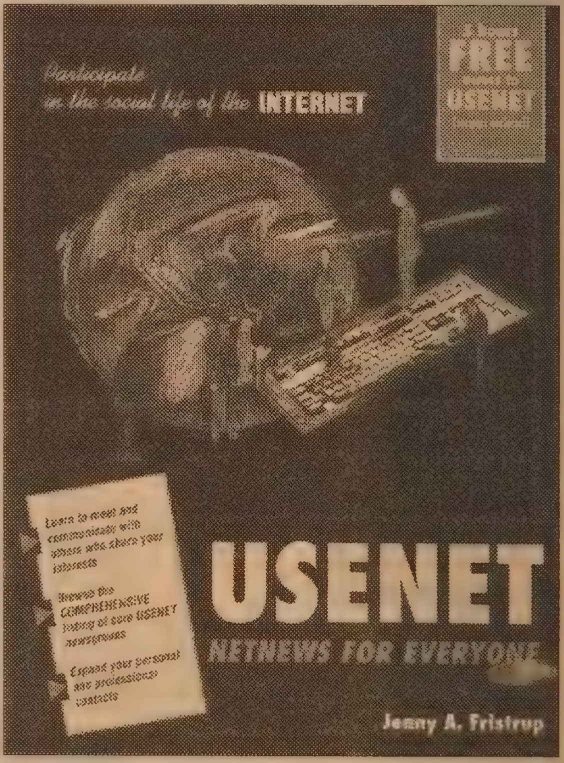
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VIRTUAL PLAYHOUSE FOR MACINTOSH

Written By: Jonathan Price
Published By: Hayden Books
List Price: $39.95
Reviewed By: Kevin Savetz

It's hard to categorize this book: the title, *Virtual Playhouse,* only hints at the breadth of topics covered within. Between the covers of this thick, nearly 800-page tome are hefty chunks of information about everything that's cool about the Macintosh and computing in the '90s.

Virtual Playhouse covers multimedia, animation, fractals, virtual reality, morphing, image processing, games, simulations, and a variety of other tools and toys. The core of the book is a CD-ROM overflowing with demonstrations and working programs for your Mac. The book explains in detail what's on the CD, what you can do with it, and why it's interesting.

You can find out how to create wild new animals using SimLife, explore the magic of Adobe Photoshop, wander three-dimensional landscapes with Virtus VR, and tweak your desktop design with Wallpaper. While the CD contains crippled versions of most of those commercial software packages, *Virtual Playhouse* provides plenty of useful working tools plus a glimpse into a variety of commercial software. It also reviews multimedia products that aren't on the disc.

After browsing the book, it's back to the disc for hours of fun with QuickTime, Macromedia Director,

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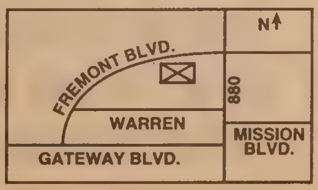

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List Price: $29.95
Reviewed By: Anna Couey

Perhaps now that the "Information Superhighway" has usurped our collective conscious with media hype, we can turn back more thoughtfully to ideas and implications of a technology that has slipped from the limelight and continued to evolve. If you've been wondering what ever happened to VR, or if you're working in the field and curious to know what others are designing, *The Virtual Reality Casebook* provides a refreshingly down-to-earth and thought-provoking survey of virtual reality developments around the world.

The editors are both from the STUDIO for Creative Inquiry at Carnegie Mellon University, which develops virtual reality applications, in particular networked VR. Loeffler's background spans conceptual, media, and electronic arts; Anderson is an art librarian. The *Casebook* reflects their interests—most of the contributors are artists and researchers developing virtual reality projects. The book also includes texts by designers of educational environments and applications for people with disabilities; business applications are at a minimum. It is a design and content book written by practitioners, rather than a technical or purely academic one. You will find discussions of content, the role of agents, how to create suspension of disbelief, and whether the body is obsolete. The *Casebook* is readable and browsable; it contains some thirty-five texts, most no longer than a few pages.

Those who follow VR may be surprised not to see essays by Jaron Lanier, Brenda Laurel, Scott Fisher, and others who are generally viewed as leading practitioners and theorists in the field (though they are referred to in many of the texts). The history of the field and description of the technology involved is rather skimpy. At times, differences between virtual reality technology and computer networks blur in discussions of civil liberties or ethical implications or social dynamics in "cyberspace." But the *Casebook* has no shortage of interesting projects and ideas—as well as surveys of activity in Japan, Germany, and Nordic countries, an extensive annotated bibliography of literature (including online forums discussing virtual reality), and a contact list for companies developing VR applications and tools. It's well worth the price. (Van Nostrand Reinhold, 115 Fifth Ave., New York, NY 10003. 212/254-3232) ■

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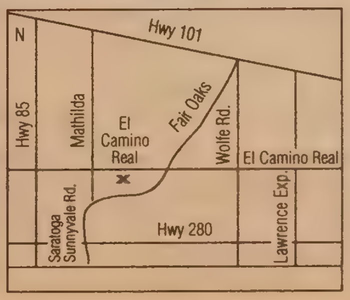

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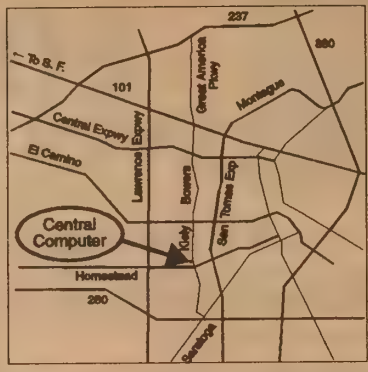

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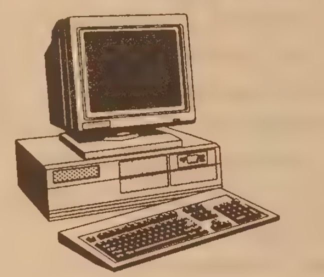

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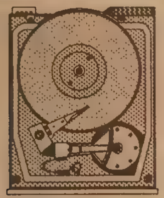

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OTHERS

BTC 84 Key Mini	35
Keytronic 101	35
Maxi 101 / Maxi 124	35/53
Mitsumi 101	29

9. MEMORY

DRAM

1MB x 1 - 80ns	6.20
256k x 4 - 80ns	5.50

SIMM

1 x 9 - 60ns / 70ns / 80ns (1MB)	41/40/39
4 x 9 - 60ns / 70ns (4MB)	149/142
16 x 9 - 70ns (16MB)	779
256k x 9 - 70ns / 80ns	14/13
1 x 36 - 60ns / 70ns (4MB , 72 pin)	175/165
2 x 36 - 60ns / 70ns (8MB , 72 pin)	335/325
4 x 36 - 60ns / 70ns (16MB, 72 pin)	615/605
8 x 36 - 60ns (32MB, 72 pin)	1280
For Mac : 4MB x 8 - 70ns / 80ns	159/155

SIPP

1MB x 9 - 70ns (3 chips)	41

COMPUTER MEMORY (3rd party)

Compaq

for Deskpro 386N - 2MB / 4MB / 8MB	109/199/369
for Deskpro 386SX20 - 2MB / 4MB / 8MB	109/199/369
for Deskpro 386-20e/ 20/ 25e - 4MB	225
for Deskpro 486M - 2MB / 4MB / 8MB	109/199/369
for Prolinea 386-25ZS/ 25S - 2MB / 8MB	105/379
for Prolinea 486-33/ 50/ 25S - 4MB / 16MB	175/639

IBM

for PS/2-50Z/ 55SX/ 65SX/ 70 - 2MB / 4MB	129/229
for PS/2 80-111/ 311/ 121/ 321 - 4MB	225
for PS/2 80-A21/ A31/ A6 - 4MB	229

KINGSTON MEMORY

current price	call

LAPTOP / NOTEBOOK (3rd party)

AST

for Premium Exec - 4MB	199
for Power Exec - 4MB	219

Compaq

for Contura 3/ 20/ 25 - 4MB / 8MB	199/359
for LTE-Lite 20/ 25/ 25C - 4MB / 8MB	229/399
for LTE 286 - 2MB / 4MB	129/195
for LTE 386S20 - 4MB	239
for SLT 286 - 1MB / 4MB	99/239

IBM

for L40SX/ N33SX - 4MB / 8MB	199/399

Macintosh

for Powerbook 140/ 170 - 6MB	255

NEC

for Ultralite Versa Versae - 4MB / 8MB	205/379

Packard Bell

for 386SX - 2MB / 4MB	155/259

Panasonic

for 170/ 270/ 370 - 1MB	99

Toshiba

for CT 380/ 480 - 4MB / 6MB	239/320
for T1600 - 2MB	139
for T2200SX - 2MB / 4MB / 8MB	119/229/379
for T3100SX - 2MB / 4MB	129/209
for T3200 - 3MB	169
for T3200SX - 2MB / 4MB	129/209
for T3400 - 4MB / 8MB	239/449
for T5100 - 2MB	129
for T5200/ T8500 - 2MB / 8MB	129/449
for T6400 DX/ SX/ SXC - 4MB / 8MB	220/379

LASER PRINTER MEM. UPGRADE

JET RAM (3rd party)

for Epson EPL6000 - 2MB / 4MB	155/245
for HP Desk Jet 500/ 500C - 256k	69
for HP Laser Fax - 1MB	80
for HP Laser Jet II/ IID - 1MB / 2MB / 4MB	99/145/235
for HP Laser Jet III/ IIIP/ IIID - 1MB / 2MB / 3MB / 4MB	79/125/169/215
for Panasonic KX-P4410/ 4430 - 1MB / 2MB / 4MB	95/139/229
for Panasonic KX-P4420/ 4450i - 1MB / 2MB / 4MB	99/145/235
for Panasonic KX-P4450 - 1MB	139
for Panasonic KX-P4455 - 2MB	169
for Panasonic KX-P4400/ 5400 - 2MB	185
for QMS PS410 - 1MB / 2MB / 4MB	99/145/235
for QMS PS815/ 825 - 2MB / 4MB	159/249
for Texas Instruments Micro Writer - 1MB	69
for Texas Ins. Micro Laser Turbo XL - 1MB	69

PACIFIC DATA

1-2-4 Plus for HP II/ IID - 1MB / 2MB / 4MB	115/159/249
Pacific 4 for HP IIP+/ IIIP/ III/ IIID - 1MB / 2MB / 4MB	89/135/225
Pacific 4 SIMM for HP4P/ 4MP/ 4+/ 4M+/ 4V - 4MB (MS420) / 8MB (MS820)	165/320
Pacific 4 SIMM for HP 4/ 4+/ 4Si/ 1200C - 4MB (MS400) / 8MB (MS800)	189/375
Pacific 4 SIMM for ProTracer - 8MB	489

10. MODEM & FAX

BOCA

14.4 Fax Data Voice Int	*(135)155
14.4 Fax Int / Ext	*(89)/125
14.4 Pocket Fax	169
28.8 Fax 14.4 Modem Int / Ext	*(169/199)

GVC

14.4 Fax Int / Ext	99/119
PCMCIA 9624 Fax	99

HAYES

Accura 144 + Fax Int / Ext	*(129/149)
Accura 28.8 Fax 14.4 Modem Ext	275
ESP Communication Single port	85
ESP Communication Dual port.	125
Optima 144 Fax Ext	389
Optima 288 B Fax 144 Int	379
Optima 288 V.Fast 144 Fax Ext	435
PCMCIA Optima 144 Fax	*(239)285
SmartCom for Windows	*(47)

INTEL

Faxability software	*(25)
Faxability Plus/OCR 2.0 for Windows	*(75)
PCMCIA 144 Fax	*(199)
PCMCIA 144 International Fax	*(379)
SatisFAXtion w. Faxability Software - 400 144/144 v.42, v.32bis, MNP5 Int	259
- 400e 96/144 4k data buffer Ext	*(289)

MEGAHERTZ

PCMCIA XJ1144 144 Fax w. X-Jack	*(215)
PCMCIA XJ2144 Fax w. X-Jack	*(245)
Pocket P2144 144 Fax	245

MICROCOM

Deskporte ES 28.8 Fast 14.4 Fax Ext	189
Deskporte EP 28.8 Fast 14.4 Fax Ext	259
Microporte 4232bis Fax	465

PRACTICAL PERIPHERALS

Fax Me (turn HP laser to fax receiving)	*(59)
Mini Tower 144FX144 Ext	139
PM144FX144 Int	119
PCMCIA 144 Fax	279
Pocket 144 Fax	299
288 Fax 144 Ext (PC 288 LCD)	349

SHIVA

Net modem/E Ethernet BNC/TP	1475

SMARTLINK (w. AT&T chips)

1414BAV 144 Fax w. Software Int (w. 16550)	75
1914ATU 144 Fax Ext (upgradable to 19.2)	125
1414PAV Pocket 144 Fax	155
1914BAT 19.2/14.4 Fax Int / Ext	99/135
1414BOV-V7 144 Fax/ Voice/ Data Int	119

US ROBOTICS

Courier v32 Terbo Fax 19.2MB w. ASL Int	359
Courier v32 Terbo Fax 19.2MB w. ASL Ext	379
Sportster 144/144 Fax MNP5 Int / Ext	99/119
Sportster 144/144 for Mac Ext	149
Sportster 28.8/14.4 Fax Int	169
Sportster V.34 28.8/14.4 Fax Int / Ext	205/219
Worldport PCMCIA 144 Fax	*(169)189

ZOOM (7yr. Warranty fr. Zoom)

96/96 w. WinFax Lite Int / Ext	99/125
144/144 w. WinFax Lite Int / Ext	119/145
144/144 Fax Modem & Voice Int / Ext	139/169
28.8 V.Fast 14.4 Fax Int / Ext	159/189

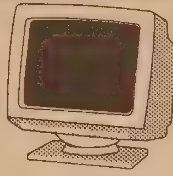
ZY-XEL

U1496B 16.8 Voice 14.4 Fax w. Software Int	289
U1496B+ upgradable to 19.2Kbps Int	397
U1496E 16.8 Voice 14.4 Fax, LED Ext	299
U1496E+ upgradable to 19.2Kbps Ext	399
U1496P Portable 16.8/14.4 Fax 2 line	389

OTHERS

CommShare 550 Phone & Fax Auto-switch	75
CommShare 750 4 Port Switching	99
National Semiconductor TyIN 2000 Int	*(75)
SIIG TeleCommunicator 10-in-1 Fax	219
14.4 Fax modem Int	59

11. MONITOR



ACER VIEW

34T 14" 1024 x 768 .28 NI	249
56L 15" 1280 x 1024 .28 NI	359

ANTEC

CM15GS 15" Black, 1280 x 1024 .28 NI	379

EYE Q

SM1411 14" Flat Mono Amber Paper White	95
M447AU 14" 1024 x 768 .28 NI	249

HITACHI

CM1586MU 15" Flat 1280 x 1024 .28 NI	389
CM1797M 17" Flat 1600 x 1280 66Hz .26 NI	975
NS1764 17" Flat 1280 x 1024 60Hz .26 NI	745

IDEK

MF-8617 17" 1280 x 1024 .26	799

KFC

CT1428A 14" 1024 x 768 .28 NI	249
CA1507 15" Flat 1280 x 1024 .28 NI LED.	375
CA1508 15" Flat 1280 x 1024 .28 NI LCD	389
CA1718 17" Flat 1280 x 1024 .26	745

MAG (auto switch power)

DX15F 15" 1280 x 1024 .28 NI (no LED)	369
DX17F 17" 1280 x 1024 .26 NI (no LED)	689
MX15F 15" MPRII Flat 1280 x 1024 .28 NI	459
MX17F 17" Flat 1280 x 1024 .26 NI	849
Mac Adapter	25

MITAC (3 yr. warranty)

M1564 15" 1280 x 1024 .28 NI	325
M1775 17" 1280 x 1024 .28 NI	629

NANAO

F340iW 15" Flat 1024 x 768 .28 NI	625
F550iW 17" 1280 x 1024 .28 NI	*(879)979
F560iW 17" 1280 x 1024 .26 NI	1185
T560i 17" 1280 x 1024 .25 NI	1395
T660i 20" 1280 x 1024 .31 Trinitron NI	1995
F760iW 21" 1280 x 1024 .31 NI	1915
F780iW 21" 1600 x 1280 .26 NI	3095

(price) .... special, while supplies last

NEC

3FGe 15" 1024 x 768 .28 NI	*(495)
4FGe 15" Flat 1024 x 768 .28 NI	625
XP15 15" 1024 x 768 .28 NI	665
5FGe 17" 1024 x 768 .28 NI	985
5FGp 17" 1280 x 1024 NI	1129
XP17 17" 1280 x 1024 .28 NI	1249
6FGp 21" 1280 x 1024 NI	1995
XP21 21" 1600 x 1200 .28 NI	2449
NEC Monitor Lens : Anti-reflection, Anti-static for 4FG / 5FG / 6FG	75/*(99)/185

NOKIA

449E 15" 1280 x 1024 .28 NI	499
447B 17" 1280 x 1024 .25	935
447X 17" 1600 x 1280 .25 NI	1059
445X 21" 1600 x 1280 .26	2485

OPTIQUEST

1000S 14" 1024 x 768 .28 NI	269
1500D 14" 1280 x 1024 .28 NI	349
2000DC 15" 1280 x 1024 .27 NI	399
4000DS 17" 1280 x 1024 .27 NI	725
4000TC 17" 1280 x 1024 .25 Trinitron NI	825

PANASONIC

C1791E 17" 1280 x 1024 .28 NI	*(725)819

PROTON

PM1561A 15" 1280 x 1024 w. speakers built-in	355

SIIG

9" VGA Mono Paper White 640 x 480	135

SONY

15SF 15" 1280 x 1024 .25 NI	439
17SE 17" 1600 x 1280 .25 NI w. After Dark	989
1730 17" 1024 x 768 .25 NI	899
20SE 20" 1280 x 1024 .30 NI	1835

STANDARD TECHNOLOGIES

400-M 14" VGA Paper White	109
428-VESA 14" 1280 x 1024 .28 NI	249

VIEWSONIC

6e 14" 1024 x 768 .28 NI	275
14e 14" 1024 x 768 .28 NI, MPRII	349
15 15" Flat 1280 x 1024 .28 NI	409
15EX 15" Flat 1024 x 768 .28 NI, MacII	369
17 17" 1600 x 1280 .27 NI, MacII	849
17G 17" 1280 x 1024 .28 NI	749
20 20" 1600 x 1280 .28 NI, MacII	1479
21 21" 1600 x 1280 .26 NI, MacII	1669

12. MOTHERBOARD

AIR (w/o cpu)

486-DX2-66 256k, 3VLB slots, built-in AT I/O	189
486-33 / DX2-66 256k, EISA, 3VLB slots	349

AMI (w/o cpu)

Super Voyager II 486-DX2-66 VLB, 7 slots	355
Enterprise IV 486-DX2-66 256k EISA VLB	465
586-90MHz PCI 256k w. IDE I/O	499

ASUS (w/o cpu)

486-DX2-66 256k PCI, built-in IDE+SCSI I/O	275
586-60 / 66 256k PCI EISA, built-in SCSI I/O	485
586-90 / 100 256k PCI EISA, built-in SCSI I/O	855

IBM (OPAL)

486BL3X-75MHz VLB w. CPU & Math Proc	239
486SLC-66 VLB w. CPU & Math Proc	175

INTEL (w/o cpu)

586-90MHz 256k PCI, built-in IDE I/O	369

LYNX (USA made, w/o cpu)

486-33 / DX2-66 256k VLB Green PC	135

MICRONICS (w/o cpu)

BCP 386-33 64k, 4MB max	85
486-33 / DX2-66 256k VLB	215
JX30G 486-DX2-66 256k VLB w. Zif socket	259
486 - 33 / DX2-66 256k EISA VLB	475
486-DX2-66 256k EISA E2	395
586-60 256k, ISA PCI, 3PCI slots	415
M5PE 586-60 / 66 256k EISA	595
M54PI 586-90 w. IDE I/O (Neptune)	465

NICE (w/o cpu)

486-33 / DX2-66 256k VLB, Green PC	139
486-50 / DX2-66 256k Mini EISA VLB	225
486-50 / DX2-66 256k EISA VLB	315

SHUTTLE (w/o cpu)

486-DX2-66 256k 3VLB slots, Green PC	125
486-DX2-66 256k EISA 3VLB slots	239

SUPER P54VL-PCI (w/o cpu)

Pentium P54VL-PCI 586-90 256k Flash Bios	369

TIGER V

586-90MHz 256k PCI	369

13. MOUSE & JOYSTICK

AGILER

AGM-800E Serial 400 dpi	12.50
ATB-610 Serial Trackball	21.50
Master Plus 400	16.50

ANCER (black)

3-button	19

KENSINGTON

Expert Bus 4.0	119
Expert Serial & Trackball 4.0	99

LOGITECH

Cordless II	85
Cyberman 3D Controller	*(55)
First Serial	31
Fotoman Plus Camera for PC & PS/2	549
Mouseman Bus	64
Mouseman Serial	47
PG15 Bus oem	45
Trackman II	75
Trackman Portable	49

MICROSOFT (USA made)

Bus 2.0 400dpi oem / w. Bus Card	43/65
Bus 2.0 w. Expansion Card	79
Home Serial 1.0	44
PS/2 2.0 (round connector)	59
PS/2 & Serial Mouse 400dpi oem	45
Serial 2.0 400dpi oem : gray / white	29/35

MOUSE SYSTEMS

Altes	9.95
Cobra (joystick)	9.95
Mouse! Serial w. Pad	19
PC Mouse (3-button optical)	39.50
PC Trackball II	45
Serial Bus Card (9IRQs)	29
The New Mouse 400dpi (3-button)	39

JOYSTICK :

THRUSTMASTER

ACM Gamecard	29.95
F-16 FLCS	135
Flight Control System MK II	75
Flight Control System Pro	119
Flight Stand Holder	19
Formula T1 / w. Indy Car	129/149
Rudder Control	115
Weapon Control MKII	109
UPROM	29.95

OTHERS

Comfy Keyboard (for age 2-6, hardware & s/w)	97
Dexxa Serial	19.50
Quickshot Smart Game Card	16.50
Star Trek Mouse Pad	9.50

14. NETWORK

3COM

3C503 Etherlink II 16 bit coax / TP	165/175
3C509 Etherlink III coax / 5 pack	118/529
3C509 Etherlink III TP / 5 pack	115/*(499)
3C509 Etherlink III Combo	129
- 5 pack / 20 pack	559/1895
3C509 TPO for TP only 5 pack	449
3C529 Etherlink III for MCA coax / TP	235/239
3C579 Etherlink III EISA coax / TP	228/229
3C589 PCMCIA TP	199
3C589 PCMCIA Combo	249
3C16170 Link Builder (12TP)	359
3C16270 Link Builder (12TP + AUI)	345
3C16060 Link Builder FMSII Bridge	529
3C16670 Link Builder FMSII 12 Port	599
3C16671 Link Builder FMSII 24 Port	995
Transcend Link Builder FMS Management	350

ADDTRON

AE-200LC BNC & TP	52
AE-200JL BNC & TP	55
ET-200STS NE2000 coax (BNC + AUI)	*(49)
HUB: UTP8/L (8TP + 1BNC)	149
HUB: UTP16 (16TP + 1BNC) + 1AUI)	399
Pocket Adapter BNC	115
Pocket Adapter TP	119
Transceivers: ET10TB (TP<->AUI)	39
Transceivers: ET10CB (BNC<->AUI)	39

ALLIED TELESIS (CentreCOM)

AT-1500T	*(69)
AT-1700T TP	79
Transceivers: MX10	42
Transceivers: 210T	42

ARTISOFT (Lantastic)

Articom	*(99)
Central Station II	399
Corstream Server 5-user	625
Corstream Server 5-user + Eagle EP3210	775
Corstream Server 10-user + Eagle EP3210	1495
Lantastic Z (2 stations)	89
Lantastic 6.0 Starter Kit coax 2-user	*(235)
Lantastic 6.0 Add On NR-SI 2000C	*(115)
Lantastic 6.0 Add On NR-SI 2000T	125
Lantastic 6.0 Software single user	79
- 6.0 for 5-user / 10-user	339/599
- upgrade for single	39
- upgrade for 5-user	*(99)129
Lantastic for OS/2	call
Lantastic for TCP/IP single / 5-user	199/785
NR2000C BNC only (Lantastic 5.0)	167
NR2000T RJ45 only (Lantastic 5.0)	169
NR-SI 2000C coax / 5 pk / 10 pk	79/375/685
NR-SI 2000T TP / 5 pk / 10 pk	84/379/689
NR-SI 2000A Combo	115
NR-SI 2000M for MCA	139
Remote Boot ROM for NR2000	45
Eagle Ethernet Cards :	
- Eagle EP2000 coax / TP	89/85
- Eagle EP3210 coax / TP	165/159
- Eagle NE2000 Plus Ethernet coax / TP	92/89
- Eagle NE3200 EISA coax w. TPA (FS)	465
- Eagle NE3210 EISA 32 bit Combo	199
- HUB: 8 Port TP (8TP + 1BNC)	225
- HUB: 12 Port TP (12TP + 1BNC)	355

ASANTE (for Mac & PC)

AH1012 Intelligent HUB 12 Port	875
10T HUB 8 Port	255
10T HUB 12 Port (12TP + 1BNC + 1AUI)	495
FriendlyNet with AUI / BNC /TP	69

BOCA

HUB: 8 Port TP only	149
HUB: 16 Port TP only	269
LAN Card ISA Combo	69
LAN Card VLB TP	75
PCI 32 bit Ethernet Combo	89
PCMCIA 10BT Ethernet	169

CASTELLE

JetPress (network Print server) for HP II. IID, III, IIID, coax + TP	429
LANPress (print server connects up to 4 printers)	
- Ethernet Thick/Thin coax (1P 3S)	475
- Ethernet 10BaseT (1P 3S)	475
- Ethernet BNC & 10BaseT (2S 2P)	435

CeLAN

Flex HUB Ethernet SNMP	call
Repeater : coax 2 port	225

COGENT

EM525 Ethernet 16 coax / TP	118/119
EM525 Ethernet 16 Combo	135
EM595TP Ethernet PCMCIA UTP	199
EM932 EISA 32 bit coax / TP	238/239
EM960 32 PCI Full Duplex TP / Combo	135/159
EM964TP 32 PCI 4-Port Full Duplex TP	495

DCA

Crosstalk 2.1 for Windows	109
Communicator	58
IRMA Workstation 2.1 Dos / for Win	259/359
IRMA 3270 for MacII/ LC/ SE	735

DIGIBOARD

network products	call

FARALLON

PN381 PhoneNet w. Timbuktu for Win	259

IBM

Ether 16 coax / TP	69/69
Ether 16 Combo	79
PCMCIA 10B2	255
PCMCIA 10BT	235

INTEL

EtherExpress 16 Flash Combo / 5 pk	135/625
EtherExpress 32 EISA coax (FS)	439
EtherExpress 32 Flash EISA Combo (WS)	229
EtherExpress Pro 8/16 bit cards :	
- PCLA 8200 BNC + AUI + TP	129
- PCLA 8200 5 pack	559
- PCLA 8210 BNC + TP / 5 pk	115/499
- PCLA 8220 TP / 5 pk	109/469
- PCLA 8205 Flash BNC+AUI+TP	139
- PCLA 8205 5 pack	599
- PCLA 8215 Flash BNC + TP / 5 pk	125/549
- PCLA 8225 Flash TP / 5 pk	119/509
HUB: 12 Port EtherExpress ISA	565
HUB: 12 Port EtherExpress EISA	645
LAN Project 1.5 (virus protection)	685
LAN Sight Support 4.0	345
LAN Spool s/w 386 NLM v3.5A	425
Netport II Thin & Thick	395
Netport II 10BT	399
Netport Express XL	465
NetSatisfaxtion 2.5 for Novell	955

LANPRO

2000JC 16 bit BNC only	39
2000JT 16 bit TP w. cable	*929)
2000JA 16 bit Combo	45
Dos 7 + 2000JC	75
EP3010A Pocket Combo	129
HUB ER5390: 8 Port (9TP + 1BNC)	169
HUB ER5396: 16 Port (17TP + 2BNC)	355
Personal Netware coax 1 user Kit	84
Personal Netware coax Starter Kit	149

NATIONAL SEMICONDUCTOR

InfoMover NE2000+ coax	85
InfoMover NE2000+ 5 pack	399
InfoMover NE2000+ TP	79
InfoMover NE2000+ 5 pack	355
InfoMover NE2000+ Combo	99
InfoMover NE2000+ 5 pack	475
InfoMover NE4100 PCMCIA coax	175
InfoMover NE4100 PCMCIA TP	179

NOVELL

Dos 7 (w. Personal Netware) oem / reg.	45/55
EPROM for NE2000	35
Lan Workplace 4.2 single / 10-user	275/1295
Microdyne NE2000+ coax / 5 pack	*(75/349)
Microdyne NE2000+ TP / 5 pack	*(69/319)
Microdyne NE2000+ Combo / 5 pack	*(85/389)
Microdyne NE3200 EISA coax / TP	450/450
Netware 3.12 *(call for oem discounted price)*	
- 5 / 10 / 25-user	615/1395/2085
- 50 / 100 / 250-user	2695/3995/6995
Netware 4.02	
- 5 / 10 / 25-user	825/1795/2625
- 50 / 100 / 250-user	3595/5495/9695
Netware Management Agents	335
Netware NFS v1.2C	3150
NFS Client for Lan Workplace	205
Personal Netware oem / reg	39/75
Personal Netware 5-user Kit	265
Unixware Personal Edition - CD version	175
Unixware SDK v1.1 - CD version	75
Unixware NFS	135

SMC (Western Digital)

8003 Plus Elite 8 bit coax / TP	99/99
8013 Plus Elite 16 coax / 6 pk	118/595
8013 Plus Elite 16 TP / 6 pack	119/599
8013 Plus Elite 16 Combo / 6 pack	139/775
8013 Plus/A for MCA	*(175)
8013 Plus/A for TP	199
8 Port Concentrator (8TP + 1AUI)	335
12 Port Concentrator (12TP+2AUI+1BNC)	595
Elite Ultra 16 coax oem / reg	89/109
- 6 pack	*(489)535
Elite Ultra 16 TP oem / reg	88/108
- 6 pack	*(455)495
Elite Ultra 16 Combo oem / reg	99/119
- 6 pack	*(549)585
Elite Ultra 32 EISA Combo	215
Etherpower TP PCI	185
Etherpower Combo PCI	199
Netware Boot ROM for Ethernet	34
Tiger HUB: 3206TA 6 Port	199

SYNOPTICS

Network products	call

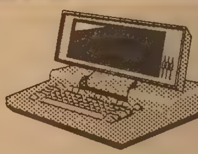
XIRCOM

PCMCIA CE-10B2 coax	*(235)
PCMCIA CE-10BT TP	*(229)
PCMCIA CE-10BC Combo	*(275)
PE3-10B2 Pocket Adapter coax	*(255)285
PE3-10BT Pocket Adapter TP	*(259)289
PE-3 10BC Pocket Adapter Combo	*(295)325
PEM-10BT w. Modem	*(299)

OTHERS

CD Link Access for Novell Netware - 5-user / 10-user / 25-user	79/159/225
CABLES & ACCESSORIES :	
10BaseT, Level 3 plenum 1000'	165
Crimping Tools	call
Belden 8259, RG58 1000'	165
RG58 U 500' / 1000'	59/99
RG58 A/U 500' / 1000'	75/129
Twisted Pair 2-pair, PVC, Level 3 - 500' / 1000'	45/59
Twisted Pair 4-pair, PVC, Level 3 - 200' / 500' / 1000'	35/55/89
Twisted Pair 4-pair, PVC, Level 5	135

15. NOTEBOOK



TOSHIBA

T1960CS 486-DX2-50, 4MB RAM, 200MB HD, 1.44BM FD, Dual Scan Color	2479
T1960CT 486-DX2-50, 4MB RAM, 200MB HD, 1.44MB FD, Active Color	3099
T1960CT 486-DX2-50, 4MB RAM, 320MB HD, 1.44MB FD, Active Color	3329
T3600CT 486-DX2-50 8MB RAM, 250MB HD, 1.44MB FD, Acitve Color	4199
T4700CT 486-DX2-50, 8MB RAM, 200MB HD, 1.44MB FD, Active Color	4899
T4700CT 486-DX2-50, 8MB RAM, 320MB HD, 1.44MB FD, Active Color	5129

OTHERS

3600 Pentium 586-60 / 66, 16k cache, 8MB RAM, 250MB HD, 1.44MB FD :	
- w. Active Color 60Mhz	4075
- w. Active Color 66MHz	4275
- w. Dual Scan Color 60Mhz	2995
- w. Dual Scan Color 66Mhz	3195
- VLB Docking Station	475
ACC9400 9.5/10.4" Viewable Screen size, 128k, 4MB (expandable to 36), VLB w.1MB video ram, removable HD, built-in speaker & microphone :	
- 486-33, 250MB(DSTN)	1995
- 486-33, 250MB (TFT)	2969
- 486-DX2-66, 250MB (DSTN)	2025
- 486-DX2-66, 250MB (TFT)	2999
- 486-DX4-100, 250MB (DSTN)	2395
- 486-DX4-100, 250MB (TFT)	3359

(price) .... special, while supplies last

16. POWER SUPPLY

AMERICAN POWER CONVERSION

APC-400 Smart-UPS (286, 386 WS)	289
APC-600 Smart-UPS (386, 486 FS)	359
APC-900 Smart-UPS (386, 486, FS & WS)	515
APC-1250 Smart-UPS (multiple FS & WS)	639
APC-2000-2 2 Smart-UPS	1150
APC-400 Back-UPS (300W)	175
APC-450 Back-UPS (325W)	209
APC-600 Back-UPS (425W)	285
APC-900 Back-UPS (650W)	375
APC PowerChute Plus :	
- for Novell	65
- for OS/2, Lan Server, 3 Com	75
- for Unix / Xenix	99
- for Windows NT	69
Power Doctor (DOS) I/F Kit for Smart-UPS	79
Surge Arrest Unit	call

PC POWER COOLING

Standard 220	
- for Desktop	85
- for Full Tower	85
Silencer 270	
- for Slim (baby or mid tower)	135
- for AT Desktop	165
- for Full Tower	159
Turbo Cool 300	
- for Slim (baby or mid tower)	139
- for Desktop	175
- for Full Tower	169
Turbo Cool 450	
- for Desktop	325
- for Full Tower	315
Twinpower 900 (redundant)	925

TRIPP LITE

Isobar 4	*(29.95)
Isobar 6 w. Fax Modem Protection	*(45)
Isobar Console CC16 Plus w. RJ11	75
Isotel 4 w. RJ11	*(39.95)

OTHERS

250W for Baby AT	45
250W for Baby or Mid Tower	45
250W for AT / for Full Tower	47/49
300W for Full Tower	69
550W for UPS	279
1200W for UPS	659

17. PRINTER

BROTHER

HJ-400 Desktop Ink Jet for PC or Mac	259

CANON

BJ-200E Ink Jet	265
BJC-600 Ink Jet Par. 360dpi	535

CITIZEN

GSX-145 24 pin, 132 column	355
GSX-220 24 pin	179
GSX-230 Fonts & Quiet	219
GSX-240 Scalable Fonts & Quiet	285
Projet II Ink Jet	279
Accessories :	
- Color Option for GSX-130	45
- Color Option for GSX-145	65

DEC (Digital Equipment)

Printers	call

EPSON

Stylus Color Inkjet 720dpi	*(549)

HP (Hewlett Packard w. toner)

Color Laser Jet	5495
Desk Jet 540	289
Desk Jet 500C	365
Desk Jet 560C	529
Desk Jet 1200C PC, Mac	1379
Desk Jet 1200C Postscript PC, Mac	1995
Laser Jet 4+ / 4M+	1389/1899
Laser Jet 4L / 4ML	639/985
Laser Jet 4P / 4MP	939/1355
Laser Jet 4Si / 4SiMX	2875/4095
Laser Jet 4V / 4MV	1895/2749
Accessories :	
- Color Kit for 540	49
- Duplex C2061A for 4Si or 4SiMX	495
- Envelope Power Feeder 75 Sheet (HP4)	279
- J2550A Jet Direct TP	329
- J2552A Jet Direct Combo	395
- Legal, Letter or A4 250 Sheet Tray (HP4)	99
- Legal, Letter or A4 500 Sheet Tray (HP4)	109
- Lower Cassette w. Letter Tray (IIP, IIIP)	149
- Optional 500 Sheet legal Letter A4 (HP4)	279
- Postscript for LJ4	329
- Postscript C2013A for 4Si	575
- Toner for II, III	84
- Toner for IIP, IIP+, IIIP	76
- Toner for 4	99
- Toner for 4L or 4P	69
- Toner for 4Si	135

LASER MASTER

Win Printer 800 Postscript	1075
Win Printer XL600 11x17, 600x660ppi	2350
Winjet 1200 (postscript for HP4)	*(650)
Winjet 1200+ (postscript for HP4+)	*(675)775

MICROTEK

TrueLaser MTP-306 35 fonts, 6ppm, 2MB	*(795)

NEC

Super Script 610 Laser 6ppm, 300ppi	499

OKIDATA

ML184T 9 pin, Par	229
ML320 9 pin, Epson compatible	325
ML380 24 pin, Epson compatible	235
ML590 24-wire	429
OL410E Laser 4ppm, 600ppi	*(645)
OL410E/PS Laser Postscript	895

PACIFIC DATA

ProTracer II Ink Jet (CAD Plotter) a4 to A2 size, 360dpi, I960RISC, 512k, 45dBA	979
ProTracer II-GL2 w. HP-GL2 & 2MB	1369
Accessories :	
- HP-GAL Emulation Card	375
- Ink Cartridges	19.50
- Postscript Emulation Card	375
- Sheet Feeder I / II	135/115

PANASONIC

1150 9 pin, 55dBA	139
1624 24 pin	379
2023 24 pin, Quiet	185
2123 24 pin, 43.5dBA, Color capability	239
2130 Quiet dot matrix .... (after rebate 169)	199
2135 Quiet dot matrix Color (after rebate205)	255
3123 Scalable Fonts , 24 pin, Quiet	259
3124 Scalable Fonts , 24 pin , LCD	329
3624 24 pin, 46.5dBA, Quiet	399
J250 Ink Jet , 300dpi, 128 nozzle printhead	*(259)
4410 Laser 5ppm, 512k	479
- Corona KX-PCR3	49
- Developer KX-PPD / KX-PDP5	110/125
- Drum KX-PDM4 / KX-PDM5	99/109
- Extra Cassette KX-PKC2	45
- Fonts Card KX-P47X	95
- Fuser Unit KX-PFS5	105
- Optional Second Cassette KX-P495	135
- Toner KX-P453	42
4420 Accessories	
- Developer KX-PDP2	95
- Drum KX-PDM2	99
- Envelope Tray KX-P431	59
- Legal Tray KX-P425	45
- Ozone Filter KX-PFT2	29
- Toner KX-P451	42
4430 Laser 5ppm, 1MB	665
- Accessories same as 4410	
4400 Led Page .... (after rebate 449)	499
- Apple Talk Interface KX-P412	179
- Drum Unit KX-PDM6	95
- Postscript Upgrade Board KX-PSU3	399
- Postscript Fax option KX-PFX1	259
- RS232 Serial Interface KX-P411	95
- Toner Kit KX-P445	17.50
4440 Laser 10ppm	995
4450 & 4450i & 4455 Accessories	
- Developer KX-PDP1	95
- Drum KX-PDM1	145
- Envelope Tray KX-P430	59
- Legal Tray KX-P420	45
- Ozone Filter KX-PFT1	32
- Toner KX-P450	42
4455 Postscript 11ppm	1695
5400 Led Postscript 4ppm . (after rebate 699)	799
- Accessories same as 4400	
SP-100 Multi-function printer	799
Other Accessories :	
- 32k Buffer Dot Matrix KX-P43	65
- Auto Sheet Feeder for 1124 KX-P36	120
- Color Upgrade Kit KX-PCK11	55
- Serial Interface Card PS-13	75
- Single Bin Cut Sheet Feeder KX-PT10	95

SEIKO

Smart Label Printer Plus	*(129)
Smart Label Printer Pro	245
- Standard Label (2 rolls)	7.95

SUMMAGRAPHICS (Plotter)

DMP-60 A to D Size	1275
DMP-61 A to D Size	1275
DMP-161 A to D size	1599
DMP-162 A to E size pen	1899
Hiplot 7100 A to D w. stand	1999
Hiplot 7200 A to E w. stand	2355

TEXAS INSTRUMENTS

Printers	call

LASER PRINTER ACCESSORIES

PACIFIC DATA

25 in One! for HP DJ500	99
25 in One! for HP II, IID, IIP, IIP+, III, 4Si	245
Complete Font Library for HP III, IIID, IIIP	255
Font Bank for all HP Lasers (stores soft fonts) 0.75MB / 1.5MB	205/269
Pacific Connect XI :	
for HP II, IID, III, IIID -	
- 5 Port 256k / 1MB (4S 1P)	309/379
- 10 Port 256k / 1MB (10S)	449/519
for HP 4, IIISi, Paint Jet XL300 -	
- 7 Port 1MB / 4MB (6S 1P)	449/649
- 10 Port 1MB / 4MB (10S)	519/179
Pacific DirectNet for Novell	369
Pacific DirectNet for Novell, Unix & Ethertalk	299
Pacific DirectNetEX for Novell & TCP/IP	469
Pacific 4, Postscript for HP 4	259
Pacific Page 2MB, Postscript for HP II	365
Pacific Page II/XL 4MB, Postscript for HP II	699
Pacific Page PE for HP IID,IIP,IIP+,III,IIID,IIIP	279
Pacific Page PE 2MB	385
Postscript 4MB PE/XL for HP III	699
Plotter in a Cartridge for HP II	225
Plotter in a Cartridge PE for HP IID, IIP, IIP+, III, IIID, IIIP	225

For other laser printer memory .... see sec.#9

18. SCANNER

AVISION (flatbed color)

Superior 24 bit, Color/ 256 Gray/ SCSI interface	
- AV600 / AV680 w. Lphoto Plus	509/649
- AV660 / AV680 w. Photoshop 2.5	725/845

HP (flatbed color)

ScanJet IICX Color w. Kit	935
- Auto Document Feeder	475
ScanJet IIP w. Kit (gray scale)	499

INFO

SF3GS Gray Scale 300 dpi w. OCR	265
SF6CP Color 600 dpi w. OCR	415

LOGITECH (hand)

Scanman Easy Touch w. OCR	179
Scanman 256 / w. Omni Page OCR	135/155
Scanman Color	245
- w. Omni Page OCR	265
Scanman Power Page	399

MICROTEK (flatbed color)

Scan Maker II w. Photoshop L.E.	565
Scan Maker IISPX 300 x 600 dpi	899
Scan Maker III	2495

TAMARACK (flatbed color)

ArtiScan 24 bit, Color / 256 Gray Levels / SCSI-interface / for PC or Mac	
- w. Photoshop. & OCR 600 / 800 / 1200 dpi	485/585/855
- w. Photostyler 600 / 800 / 1200 dpi	655/755/1025
- w. Photoshop 2.5 600 / 800 / 1200 dpi	655/755/1025
Slide Scan Kit (transparency, slide, X-ray) 600 / 800 / 1200 dpi	525/525/595

OTHERS

Fax Scanner (turn fax into scanner)	*(29)
Omni Scan 256 for Win	*(259)

19. TAPE BACKUP

COLORADO

DJ-20 250MB QIC-80	155
- 3M DC2120 Tape Cartridge	14.50
- AB-11 External Tape Port	35
- Cable (2FD & tape backup)	6
- FC-20 Controller	69
- KE-09 External Kit w/o Controller	59
- TC-15 Controller w. Data Compression	155
- Unix / Xenix Driver	99
PT-10 PowerTape 1GB SCSI Int	599
PT-25 PowerTape 2GB 300Kb/s Int	965
PTE-25 PowerTape 2GB Ext	1095
PT-50 PowerTape 4GB 300Kb/s Int	1525
PTE-50 PowerTape 4GB Ext	1655
Tracker 250MB (printer port)	285

CONNER

CNR-C250MQPT 250MB Ext	315
CNR-2150S 250MB Int	325
CNR-2525S 525MB Int	469
CNR-4320RT 2GB Int	745
CNR-4350XT 2GB Ext	985
CNR-4324RP 4GB Int	849
CNR-4354XP 4GB Ext	1145
Tape Stor 250MB w. 3M Cartridge	145

EXABYTE

EXB-2501 750MB - 1.5GB SCSI-2 Int	515
EXB-2501 750MB - 1.5GB SCSI-2 Ext	685
EXB-4200 4mm Dat. 2GB Int	845
EXB-4200 4mm Dat. 2GB Ext	995
EXB-8205 8mm Dat. 2.5 - 5GB Int	1375
EXB-8205 8mm Dat. 2.5 - 5GB Ext	1645
EXB-8505 8mm Dat. 5 - 10GB Int	2085
EXB-8505 8mm Dat. 5 - 10GB Ext	2350
FS1G w. Control Kit (2501 drive, Adaptec 1522, cables, cartridge, s/w) Int / Ext	699/899

HEWLETT PACKARD

35480 4mm Dat . 8GB SCSI Int	945

IOMEGA

250MB Insider 3.5" w. 5.25" frame	175

OTHERS

Sytos Plus Backup s/w for Dos / Win	99/95
Tape Cartridges : 3M, Exabyte, Sony	call

20. VGA CARD

ATI

Graphics Ultra Plus 2 DRAM w. mouse	199
Graphics Ultra Pro 2 ISA w. mouse	265
Graphics Ultra Pro 2 VRAM VLB	265
Graphics Ultra Pro 2 EISA	325
Graphics Ultra Pro 2 PCI oem / reg	289/315
Graphics Pro Turbo 2MB PCI / VLB	379/379
Graphics Pro Turbo 4MB PCI / VLB	589/589
Graphics Wonder 1MB ISA	135
Graphics Wonder 1MB VLB	139

DIAMOND

Stealth 32 2MB PCI	199
Stealth 32 2MB VLB	199
Stealth 64 2MB DRAM PCI / VLB	209/209
Stealth 64 2MB VRAM PCI / VLB	339/339
Stealth 64 4MB VRAM PCI	469
Stealth 64 4MB VRAM VLB	469
Stealth Pro VRAM 1MB VLB	235
Stealth Pro VRAM 2MB VLB	315
Viper P9000 VRAM 2MB VLB	325
Viper SE VRAM 2MB PCI oem / reg	299/379
Viper Pro VRAM 2MB PCI	399
Viper Pro VRAM 2MB VLB	399

MATROX

IMP/3AH 1600 x 1200, 3MB ISA	699
IMP/3VH 1600 x 1200, 3MB VLB	699
IMP PRO 1600 x 1200, 2MB PCI	415
VLB/2 Plus 1600 x 1200, 2MB VLB reg.	425
VLB/2 Plus 1600 x 1200, 2MB VLB oem	345
PCI/2 1600 x 1200, 2MB PCI	399
PRO/4.5ZV 1600 x 1200, 8MB VLB	1359
Upgrade/2 2MB Memory	215

MEDIA VISION

ProGraphics 1024 VL 256 Color 1MB .	*(199)239
ProGraphics 1024 VL 16m Color 2MB.	*(285)339
ProGraphics 1280 4MB	675

NUMBER NINE

T134020, 1280 x 1024, 90Hz, S3-928 chip	
- GXe Level 10 VRAM 1MB ISA	259
- GXe Level 11 VRAM 2MB ISA / VLB	335/339
- GXe Level 12 VRAM 3MB ISA / VLB	395/405
- GXe Level 14 VRAM 4MB ISA / VLB	599/599
GXe-64 DRAM 1MB PCI/ VLB	195/195
GXe-64 DRAM 2MB PCI / VLB	249/249
GXe-64 Pro VRAM 2MB PCI	349
GXe-64 Pro VRAM 2MB VLB	349
GXe-64 Pro VRAM 4MB PCI	529
GXe-64 Pro VRAM 4MB VLB	529

ORCHID

Kelvin 64 Windows Accel. 1MB PCI / ISA	155
Kelvin 64 Windows Accelerator 1MB VLB	155
Kelvin 64 Windows Accelerator 2MB PCI	199
Kelvin 64 Windows Accelerator 2MB VLB	199

SPIDER

Spider 64 1MB VLB / PCI	135/135
Spider 64 2MB VLB / PCI	185/185
Spider 64 4MB VLB / PCI	285/285
Tarantula 2MB VLB / PCI w. free T-shirt	279/279
Tarantula 4MB VLB / PCI w. free T-shirt	389/389

OTHERS

Cirrus Logic CI5428 1MB	99
Cirrus Logic CI5428 2MB VLB	145
Cirrus Logic GD5434 64 bit 2MB PCI	169
ET4000 Tseng Lab 1MB ISA	79
ET4000 1MB VLB	109
ET4000 W32p 2MB VLB	179
ET4000 W32p 2MB PCI	179
MGP Card (monographic w. printer port)	29
Intel Smart Video Recorder	*(369)
Intel Smart Video Recorder Pro	439
Oak077 Super VGA 512k	52
Oak087 Super VGA 1MB	65
Video Plus (video image grabber)	185
V-Mate Pro (flicker free ext. video encorder)	189
WD Paradise Window Accel 24 bit VGA	*(99)129
WinVision (video capture)	165
S3 Vision 864 64 bit 2MB PCI	179

(price) .... special, while supplies last

SOFTWARE

1. CD SOFTWARE

Call for Wholesale Prices

$5.99 Each

- Business Assistant
- Clip Media 2.0
- Club Kid Soft
- Jokes and Pranks
- Lazer Tax (480 tax forms)
- Mayo Clinic: Sampler
- MicroProse Game Sampler
- Selectware
- Shareware Collection
- Software Treasure Chest
- VGA Spectrum

$6.99 Each

- American Premier Shareware
- California Collection
- Game Arena
- Learning Adventure
- Photo CD Collection
- Sneak Peaks
- Ultimate Collection : Education & Games
- Windows Expert MPC

$7.99 Each

- Clipart Studio III
- CD Power Box 2.0
- CD Windows Box1.01
- Dr. Fun Pack
- Dr. Games
- Dr. Music
- Dr. Shareware
- Dr. Windows
- Image Compendium
- Kids Game
- Kids Rhyme
- Game Studio III
- Game Expert MPC
- My Talking Dictionary
- Super Games Dos
- Super Game I / II / III for Win

$8.99 Each

- 5 Star Game : Animation
- 5 Star Game : Education
- Adventure in Heaven
- Cybergenic Ranger
- Harry's Story Disc & Coloring Book
- Interplay Sampler
- Mario Is Missing + World Atlas 3.2
- Monster Media 93'
- Sound Library
- Shareware Heaven
- Too Much Shareware
- Town of Toons
- US Atlas 4.0 MPC

$9.95 Each

- 101 Best Games # 1 DOS
- Audio Tester
- Better Windows & Works
- Business Phonebook 93'-94' DOS
- Capital Hill
- Doom + Accessories
- Font Expert MPC
- Font Elegance
- Font Platinum
- Game Platinum
- Home & Business Platinum
- Learning Heaven
- MPC Multimedia Showcase
- Multimedia Platinum
- Publisher's Platinum
- Shareware Heaven II
- Shareware To the Maxx
- Sing-a-long Children (Dr. T's) MPC
- Top 201 Games
- TV Commercials
- US Helicopter
- US Submarine
- Utilities Platinum
- Windows Platinum
- Wizard (test & tune-up) MPC

BRODERBUND

Arthur's Birthday MPC	36
Arthur's Teacher Trouble MPC / MAC	17/37
Harry's Haunted House	36
Just Grandma and Me WIN / MAC	17/37
Math Workshop	38
MYST MPC / MAC	45/49
Printshop Deluxe CD Pack	75
Ruff's Bone MPC	36
Sampler	3.99
The Little Monsters At School MPC	36
The New Kid On The Block / for MAC	35/37
The Tortoise and the Hare / for MAC	35/37
Where in the World is Carmen Sandiego oem	19

CHESTNUT

All Titles	8.95 each

- 3 Stoogers
- Betty Boop
- Bible and Religion
- Bugs Bunny
- Classic Cartoon
- CIA Papers
- Clip Art Warehouse
- Comedy Store : Insane Impersonations
- Complete Home and Office Legal Guide
- Computer Reference Library
- Death Star Arcade Battles
- Dictionary and Languages
- Encyclopedia of Sound
- Flash Card Video (Math for grade 2-5)
- Game Jumboree
- Gardening
- Godzilla vs. Megaton
- Ham Radio
- Hilarious Sports Bloopers
- HIV Resource AIDs Guide
- Hugo House of Horrors
- Midi Master Collection
- Multimedia Manian
- Night of the Living Dead
- Our Solar System
- Personal Finance
- Porky Pig
- Sound Sensation
- Technotools
- The Complete Book Shop
- Windoware
- World Traveler

-- Shareware Overload Trio Pack 19

COREL

Corel Artshow 94' (book+CD)	29
Corel Gallery	34
Corel Professional Photo CD	*(19) each

- Butterflies
- Birds
- Coasts
- Deserts
- Food
- Fields
- Hawaii
- Insects
- Lakes & Rivers
- Mountains
- People
- Resident Interior
- Sampler
- Sunrise & Set
- Wildlife

DISCIS Series DOS, WIN, MAC

A Tree Through The Seasons	13
Aesop's Fables	11
Aesop's Fables + Cinderella.	15
Birds and How They Grow	13
Butterflies	12
Cinderella + Thomas Swimsuit (oem)	15
Dinosaurs	12
Farm Animals	12
Heather Hit Her First Home Run + Moving Gives Me Stomach Ache	13
Long Hot Day At The Ranch + X'mas	13
Paper Bag Princess + Mud Paddle (oem)	13
Somebody Catch My Homework	12
Spiders	12
Tale of Benjamin Bunny + Peter Rabbit	13
The Scary Poems for Rotten Kids	13
Whales	12
What Air Can Do	13

LASER SOFT

Advanced Learning Fun (age 8 & up)	16
Animal Magic (6 games) DOS, WIN	28
Apogee's Greatest Hits	14
Banners WIN	16
Board & Strategy (26 games)	14
Brain Teasers (28 games)	14
Business Made Easy	16
Cards and Dice (24 games)	14
Clip Art & Fonts WIN	16
Doom & 24 Utility Programs	14
Early Learning Fun (age 4-7)	16
Family Learning	14
Fly and Drive (4 games)	16
Fonts & Clipart Collection	14
Graphics & Sound Explorer (33 utilities)	14
Home Computer Start Pack (30 programs)	16
Labels WIN	16
Leader Board Golf Game (16 courses)	16
Links Collector Golf	16
Links Solid Gold - 7 Courses	19.95
Pinball WIN	22
Private Eye	16
Publishers Toolbox (31 utilities)	14
Screen Effects	14
Top Tracks	16
Triple Tris	16
Video Arcade Classics (33 games)	14
Video Gambling WIN	19
Windows Toolbox (33 utilities)	14
Wolfeinstein 3D + Blade Stone (companion edt)	14

MEDIA VISION

Critical Path oem / reg	19/26
Forever Growing Garden oem / reg	19/26
Plan-It Adrenaline / Plan-It Earth	26/26
Plan-It Paradise for Win	26
Quantum Gate oem / reg	19/26
Wriggling in Story Land oem / reg	19/26

MICROSOFT

Ancient Land	*(45)
Art Gallery Multimedia MPC	55
Cinemania 94' MPC / MAC	(oem 29)55/57
Complete Baseball MPC	*(44.99)
Dangeous Creatures	(oem 34)45
Dinosaur MPC / MAC	(oem 26)55/57
Encarta 94' / Encarta 95' MPC	29/49
Golf MPC	(oem 17)
Magic School Bus: Human Body	48
Money	17
Multimedia Beethoven 9th Symphony	(oem29)55
Multimedia Bookshelf 94' WIN	(oem37)
Multimedia Mozart MPC	(oem 29)55
Multimedia Schubert MPC	55
Multimedia Stravinsky MPC	(oem 29)55
Musical Instruments MPC / MAC	(oem 29)55/57
Office 4.2 Standard / 3.0 Professional	99/59
Publisher	35
Video for Windows	29
Visual C++ 32bit for NT	45
Word 2.0 + Bookshelf	35
Works v2.0 / v3.0.	17/29

POWER SOURCE

Titles at	7.50 each

- 3D Animator
- 16 bit Sound Masterpiece
- 25 Windows Graphics Viewer
- 49er Win Games
- 14000 Multi. Programs
- All You Can Play
- Beauty of San Francisco
- Business Library
- Chinese Common Idioms and Games
- Chinese Painting
- Chinese Recipes
- China Traveler
- Clip Art Library
- Communication Master
- Complete Linux
- Computer Super Market
- Desktop Publisher's Dream
- Fashion Show 94'
- Game Galore
- Interactive Chinese & Games
- Internet Toolkit
- Library Images
- Math Made Fun
- Midi & Wave Workshop
- Music From Heaven
- Music Box 94'
- Programmer Power Tools
- Taiwan Folk Music I, II
- Top 101 Shareware
- Travellers Handbook in 6 Languages
- Secret of Korean Beauty
- Sharing 2700 True Type Fonts
- Win 51 Games
- World of Education

MPEG Titles	7.95 each

- Alibaba 40 Thieves
- Girls Lost in Moracco
- Karaoke : Come and Sing Praises
- Jack & Bean Stalk
- Popeye Cartoon

Swimwear Series

Exotic Girls 3-in-1 / Island Girls 3-in-1.	17/17
Local Girls 3-in-1 / Tropical Girls 3-in-1.	17/17
Lovely Lady II	25
Pretty Women WIN, MAC	18
Swimsuits WIN, MAC	18
Swimwear To The Maxx	18
The Women of Venus	20

WALNUT CREEK

4.4 BSD Lite	17
Ada CD Rom	18
Beer - Home Brewing	25
C User Group Library	22
CD Rom of CD Rom	17
CICA MS Windows 94'	13
Clipart Cornucopeia	17
East Asian Text Processing	23
Fractal Frenzy	17
Free BSD 1.1	16
G N U for Unix & Sun	23
Garbo DOS, MAC	13
GIF Galore	17
Giga Games (3000 titles)	14
Hobbes OS/2	14
Inter Net Info	18
Libris Brittania	25
Linux 2.0 Tool Kit (2CD)	18
Nebula for Next Step Intel	25
Nova for NEXT	25
Plug and Play Linux 94'	22
Project Gutterburg	18
QRZ: Ham Radio (call book)	13
Ready to Run Hobbes OS/2	18
Scientific & Technology Library	23
Sentimental Wings	26
Simtel MS Dos (2CD)	13
Source Code for Unix	18
Space and Astronomy	17
Sprite for Sun	14
TCL/TK Source Code	19
Travel Adventure	18
Ultra Mac Games MAC	23
Unix - System V v4.2.	29
Visions	23
X11R6 for Unix	23

OTHERS

3D Body Adventure DOS, WIN (new)	45
3D Dinosaur Encyclopedia (new)	45
3D Landscape	48
3D Madness	29.95
7th Guest DOS	19
9 Digit Zipcode Phonebook	17
11 Million Business Phonebook 94'	15
70 Million Households Phonebook 94'	19
101 Best Games #2	13
200 Games WIN	21
250 World's Greatest Music Clips	17
200 Waycool Windows Games Too!	15
500 Fonts WIN	19
A Hard Day's Night WIN	17
Absolute Beginners Multimedia	24
Absolute Mayhem	15
A.D.A.M. Inside Story WIN	46
Aces Critical Mission	15
Aces of the Deep (sierra)	49.95
Advanced Dungeons & Dragons 3-pack	19.99
Adventures (1000 tours) MPC oem	17
Aegis Guardian of Fleet oem / reg	25/49
Aircraft Encyclopedia DOS	25
Aladdin and The Wonderful Lamp	12
Alone in the Dark 1 + 2	43
Amazing Universe	36
American Alive Tour Guide 2.0 WIN	19
American Heritage Encyclopedia	16
Amer. Heritage Talking Dictionary oem / reg	19/35
Animal Alphabet MPC	18
Animal Safari	34
Aponge Companion	12
Arctic Baron	43
Armored Fist	49.95
Art Appeal Business / Govt./ Education	19/18/17
Art & Letters Space Age	35
Asia Alive Tour Guide WIN	15
A.S.P. Shareware	15
Audubon's Birds MPC, MAC	14
Audubon's Mammal MPC, MAC	14
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cc:Mail Group Pack for Win w. Organizer	595
cc:Mail Mobile E-Mail 2.0 for Win	135
- upgrade	75
cc:Mail Router 5.1	*(79)
cc:Mail Router 10-user License	375
Freelance Graphic 2.01 for Win	325
- upgrade for Win / for Dos	99/99
Notes Starter Pack 3.0	850
Organizer 1.1	95
Smart Suite 3.0 / upgrade	*(399/265)

MICROGRAFX

ABC Flowcharter 3.0	315
Designer Tech 4.1	455
Graphics Works for Win - FD / CD	85/19.50
Picture Publisher 5.0 for Win - CD	*(129)399
Windows Draw 3.0	49

MICROSOFT

Access 2.0 for Win / comp. upgrade	299/119
Arcade Games for Win	27
Creative Writer (age 8-14)	*(39.95)
Dos 6.22 / upgrade	42/49.50
Excel 5.0 for Win / upgrade	*(285)294/89
- competitive upgrade	119
Fine Artist (age 8-14)	*(39.95)
Flight Simulator 5.0	39.95
- New York / Paris / SF Scenery	28/28/25
Fortran 5.1 Compiler	155
Fortran Powerstation / upgrade	339/195
Fortran Powerstation 32	519
- upgrade to NT	275
Fox Pro 2.6 Single Dos or Win	*(95)
Fox Pro 2.6 Professional / upgrade	449/285
Golf Course	19.95
Macro Assembler 6.11 (MASM) / upgrade	155/79
Mail Server 3.2 (10-user)	445
Multimedia Viewer - CD	315
Office 4.2 for Win - FD / CD	455/459
- competitive upgrade - FD / CD	275/279
Office Professional 4.3 - FD / CD	*(535)
- competitive upgrade - FD / CD	355/359
Power Point 4.0 / competitive upgrade	315/125
Profit for Win	129
Project 4.0 for Win / upgrade	419/139
Publisher 2.0 for Win	89
Scenes Screen Saver	23
Sound System 2.0 for Win	149
- software only	49
Test 3.0 for Win / upgrade	569/195
The Best of Entertainment Pack	23
True Type Font Pack # 1 / # 2	45/46
Visual Basic 3.0 for Win - Standard	129
Visual Basic Prof. 3.0 for Win - FD / CD	299/305
- competitive upgrade	189
Visual C++ Standard	79
Visual C++ 2.0 for Windows NT (subscription)	499
- upgrade	349
Visual C++ 2.0 Win & NT (On Line Doc.)	379
- upgrade	239
Windows 3.11 - 5.25" FD	53
- upgrade	49.95
Windows NT 3.5 Workstation - CD / FD	299/295
- upgrade fr. v3.1 to v3.5	95
Windows NT Server 3.5	675
- upgrade fr. NT Workstation (20-user)	145
- upgrade to NT Server 3.5 (250-user)	685
- competitive upgrade to NT Server 3.5	695
Windows for Workgroups (reg. version)	135
- oem version in 3.5" FD	57
- Workgroups Add On 3.11 for Win	49
- Workgroups Add On 3.11 MS-DOS	52
Word 6.0 Dos / upgrade.	299/99
Word 6.0 for Win / comp upgrade	295/119
Works 3.0 Dos	99
Works 3.0 for Win oem / reg	59/89

QUARTERDECK

DesqView 386 2.62	95
DesqView/X 2.0	169
DesqView/X Network Manager (TCP/IP)	129
Qemm 7.5 / upgrade	59.95/39

SANTA CRUZ OPERATION

Open Desktop Dev. Sys. 3.0 - FD/CD.	1395/1249
Unix Dev Sys. 3.2 v4.2	950
Unix OS 3.2 v4.2, 1-2 user, full doc.	445
- 16 user full doc. / limit doc.	850/750
- 17+ user full doc. / limit doc.	1225/1095

SYMANTEC

ACT! 2.0 for Win	179
EnterpriseDeveloper competitive upgrade.	259
Norton Anti-Virus 3.0 for Win & Dos	85
Norton Commander 4.0	69
Norton Desktop 3.0 for Win	112
Norton Speed Drive (speeds Win, Dos, CD)	69
Norton Utilities 8.0	109
On Target for Win (project planning)	89
PC Anywhere 5.0 Remote & Host Dos	115
- v1.0 for Win	119
PC Anywhere Lan Complete	385
Q & A 4.0 Dos / 1.0 Win	*(239)/*(165)
Q & A Write (word processing)	49

WORDPERFECT

Quattro Pro 6.0 for Win - CD	255
- upgrade / competitve trade up	49/89.95
Wordperfect 5.2 for OS/2	*(99)
Wordperfect 6.0 Dos (free upgrade)	*(259)
- upgrade	95
Wordperfect 6.0a for Win (free upgrade)	*(235)
- upgrade & competitive upgrade - CD / FD	95
- Education Offer + Quattro Pro	*(105)
Wordperfect 6.1 for Win - FD / CD.	255/269

OTHERS

After Dark III - FD / CD	29.95/39.95
ALDUS	
- Freehand 4.0 for Win	379
- Gallery Effect	129
- Pagemaker 5.0 for Win (w. fax scan)	499
– upgrade	139
– w. Photostyler 2.0	*(565)649
- Persuasion 2.1 for Win	325
- Photostyler 2.0 for Win oem / reg	295/355
Be Our Guest (game)	15
By Design for Win	59
CAERE	
- Omni Page Direct OCR 2.0	95
- Omni Page Professional 5.0 for Win	445
- Omni Page 5.0 for Win	309
CA Clipper 5.2 / upgrade	479/115
CA Simply Accounting Dos / Win	69/69
Cakewalk Home Studio	99
Cakewalk Professional 3.0 for Win	235
Calendar Creator Plus	*(29)
Canvas for Win	265
- competitive trade up	99
Carbon Copy 6.1 Guest & Host Dos	*(95)
Carbon Copy 2.5 for Win	*(115)
Check-It Pro Analyst for Win	*(59)85
Check-It Pro vol.1 & vol.2	85
Check-it Pro Deluxe vol.2 for Dos	135
Check-It Plus 3.0	85
Claris Works for Win	*(55)69
DacEasy Accounting 5.0 for Dos	95
- v1.0 for Win	95
Design CAD 2D 7.0 for Win	179
Direct Access 5.1 Dos	65
Disney Screen Saver	27.95
Eclipse Fax 1.2 for Win / w. OCR	69/79
FastBack Plus 6.0 Dos	85
File Maker Pro 2.1 for Win	*(115)
Floor Plan Plus 3D competitive upgrade	47
Fractal Dabbler	55
Fractal Design Painter 2.0 for Win	259
- X2 for Win	88
FrameMaker 4.0 for Win	549
FTP: PC/TCP for Win	295
- On-net	365
Grammitik V Dos / for Win	*(49)
Harvard Graphics 3.0 for Win	275
- upgrade 3.0	95
Harvard Graphics 3.06 Dos	*(325)
Hijaak 2.1 Dos	89
- v2.0 for Win	85
Kai's Power Tools 2.0 for Win	115
Kid CAD - FD / CD	29/36
Kid Pix 2 for Win	38
Kodak PhotoEdge CD	89
Kodak Shoebox Image for Win	*(95)
Laplink V	105
Laplink 6.0 for Win	129
- upgrade	85
Lion King Print Studio	15
Lion King screen saver	16
Mac-in-Dos for Win	89
Managing Your Money for Win	33.95
Math CAD 5.0 for Win	98
One Write Plus Accounting & Payroll	49
Passport Encore 3.0	365
Peach Tree Accounting 3.0 for Win	115
Photo Morph 2.0 for Win	85
Power Japanese 2.0 for Win - FD / CD	195/199
Power Search (file manager)	*(25)39
Procomm Plus 2.1 Dos	89
- 2.0 for Win	126
QA Plus 4.8 Dos	59
- 6.0 for Win	59
Quark X Press 3.3 for Win	599
Qualitas 386 Max 7.0	*(59)
Quest for Glory IV (game)	39.95
Sherlock for Win (filing & retrieval)	*(65)
SpinRite 3.1	79
Soft Windows (for Power Mac)	*(295)
Stacker 4.0 / upgrade	95/55
Stacker for OS/2	129
StageSoft Accounting w. Payroll	159
- Lan version	*(255)
Tie Fighter (game)	45
Uninstaller 2.0 for Win (microhelp)	45
Uninstaller Network 2.0	*(95)
Visio 3.0 for Win	*(125)
Visio Express For MS Office	49
Watcom C++ v.10 16/32 bit	189
Wave 2.0 for Win (by Turtle Beach)	*(65)75
WinCheckIt 2.0	46
Win Comm Pro	79
Winfax Pro + WinComm Pro	124
Winfax Pro 4.0	79
WinGuard Plus+ (data security Win & Dos)	39
WinLynx	*(39)79
WinSense 2.0 (windows optimizer)	39
Winsleuth Gold Plus	59
Wordscan 3.0 (by Calera)	169
- Wordscan Plus	*(399)
Wordstar 2.0 for Win	39
XTree Gold 3.0 DOS	95
XTree Gold 4.0 for Win	69

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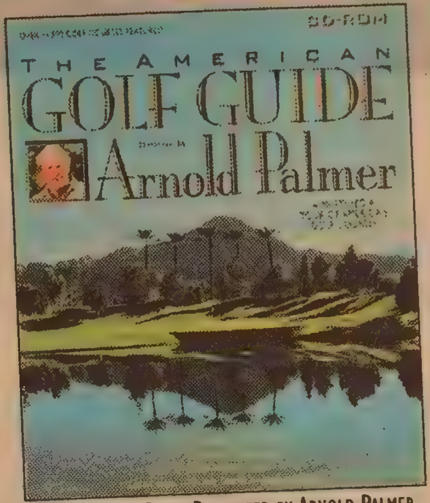
(price) .... special, while supplies last

-Product Spotlight-

SOFTWARE

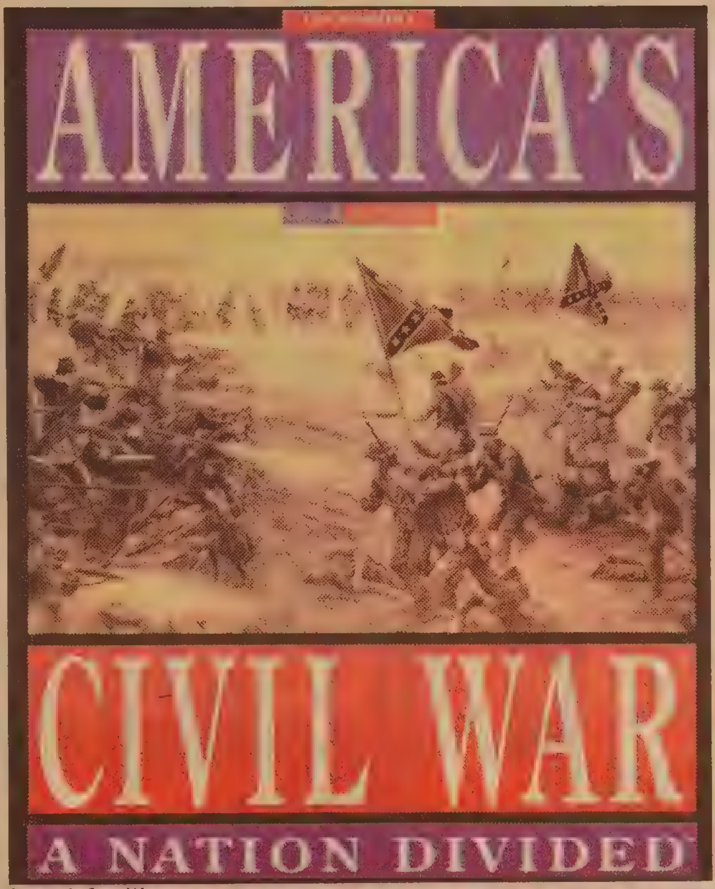
cd-rom software



AMERICAN GOLF GUIDE PRESENTED BY ARNOLD PALMER

AMNESTY INTERACTIVE

Amnesty Interactive, the first interactive history and atlas of human rights on CD-ROM, is narrated by Leonard Nimoy and filled with a rich diversity of cultural styles in art and music. It includes a history of human rights from ancient times to the twentieth century, presented through the ideas of noted thinkers and political figures; an atlas of human rights conditions throughout the world; a gallery of animation from around the world, illustrating human rights themes; a collection of stories featuring former prisoners of conscience from Amnesty International case files; a "What You Can Do" section about how to take individual action; and hundreds of pages of reference documents. Amnesty Interactive was conceived and created by Ignition, based on materials provided by Amnesty International, and will be distributed by The Voyager Company on a nonprofit basis of $10 to cover costs of materials and marketing. The CD-ROM is available for Macintosh and Windows. The Voyager Company, 1-800-446-2001. Ignition, (415)221-4266.



AMERICA'S CIVIL WAR

WORLD'S GREATEST SPEECHES

World's Greatest Speeches contains the full text of more than four hundred speeches, including ones by Abraham Lincoln, Dr. Marin Luther King Jr., John F. Kennedy, Gandhi, Adolf Hitler, Winston Churchill, Richard Nixon, and more. There are more than thirty minutes of full-motion black-and-white video clips of selected speeches such as Kennedy at the Berlin Wall, Nixon's "Checkers Speech," and Dr. King's "I Have a Dream" speech. Users can also listen to the original sounds of these moments in history with more than two hours of selected audio clips. Detailed biographies of the speakers are included, along with graphic images of more than one hundred speakers. World's Greatest Speeches is available for PC compatibles running Windows 3.1. ($49.95) Softbit, Inc., One Whitewater, Irvine, CA 92715. (714)251-8600.

What others are doing
What you can do
TOPICS

AMNESTY INTERACTIVE

AMERICAN GOLF GUIDE PRESENTED BY ARNOLD PALMER

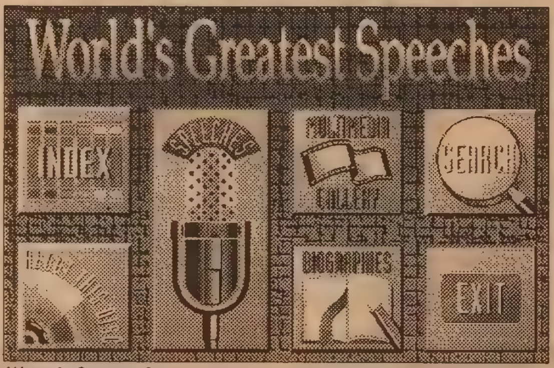
American Golf Guide, a Windows-based CD-ROM, provides in-depth information for over 11,500 US golf courses, including course layouts, score cards, facilities information, color-coded weather maps, travel directions, hotel listings, and information on resorts, activities, and tourist attractions adjacent to the courses. It also includes more than five hundred color photographs of select courses, plus full-motion video clips of fifteen of the most scenic courses. Golf enthusiasts can see a course before playing it, plan a vacation that includes golfing, add a round of golf to a business trip itinerary, or simply satisfy their curiosity by "visiting" some of the most scenic and challenging courses in the US. ($59.95) DataTech Software, 6360 Flank Dr., Suite 300, Harrisburg, PA 17112. (717)652-4344.

3D LANDSCAPE

3D Landscape is an interactive multimedia software program for landscape visualization, planning, and design. Working with the program's 3-D modeling technology, your design ideas are translated into 3-D representations that include yard slope, terrain, and areas of greatest sun. 3D Landscape also offers customized advice, a pant database with more than three hundred of the most common landscape plants, built-in intelligence that calculates the cost and material required, and more. You will learn techniques for both design and implementation with easy-to-understand

Product Spotlight *continued...*

presentations. CD-ROM and floppy disk versions are available. ($50) Books That Work, Inc., PO Box 10230, 2300 Geng Rd., Bldg. 3, Suite 100, Palo Alto, CA 94303. (415)846-4400.


World's Greatest Speeches

WORLD'S GREATEST SPEECHES

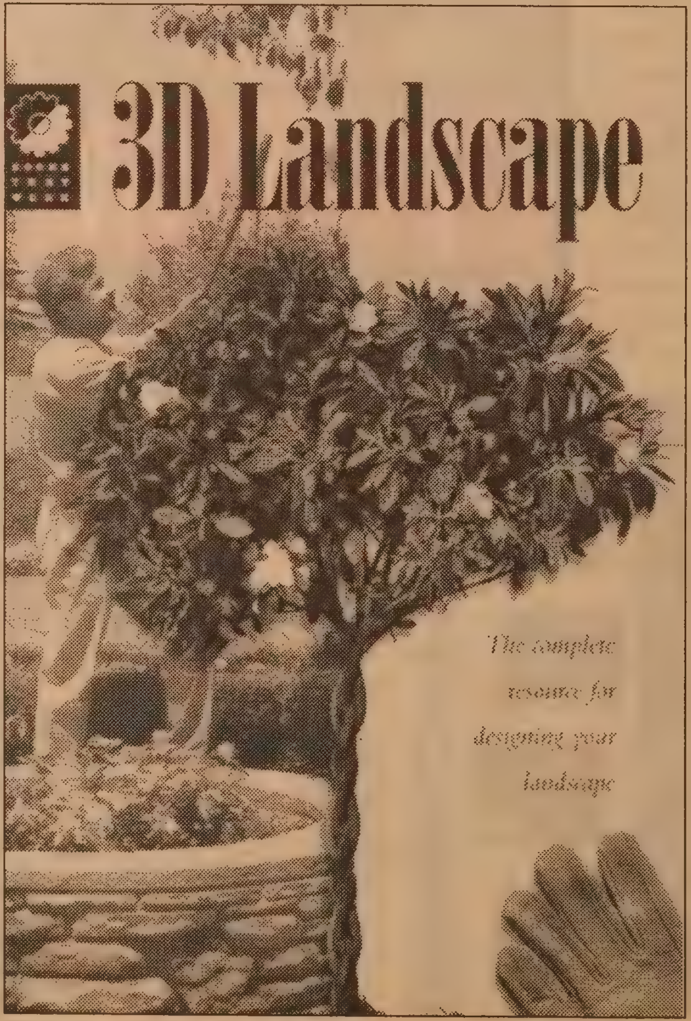
GREAT RESTAURANTS, WINERIES AND BREWERIES

Great Restaurants, Wineries and Breweries: A Gourmet Guide to America, a Windows-based culinary guide, features over four thousand photographs and menus showcasing the country's great dining and drinking establishments. From upscale establishments serving foie gras and oysters Rockefeller to boisterous back-alley brew pubs that pour great porters and bitters, this CD-ROM offers an Epicurean escape to more than fourteen hundred of America's outstanding makers of fine food, wine, and beer. You can search and select restaurants by state or city, then preview the actual menus, prices, hours, reservation requirements, and entertainment offered at each establishment. As a special bonus, some of the finest gourmet chefs share their secret recipes for hundreds of their most popular dishes. ($39.95) Cambrix Publishing, Inc., 6269 Variel Ave., Suite B, Woodland Hills, CA 91367. 1-800-992-8781.

COMPLETE AFTER DARK SCREEN SAVER COLLECTION

THE COMPLETE AFTER DARK SCREEN SAVER COLLECTION

Celebrating three years of screen saver innovation, Berkeley Systems has introduced The Complete After Dark Screen Saver Collection on CD-ROM. This collection has over eighty wacky modules, including After Dark 3.0, More After Dark, and classic After Dark 2.0 displays. In addition, users will be treated to the first pop recordings of "On Mighty Toaster Wings," the new anthem of the Flying Toaster squadron. Other features include EcoLogic, the power management software that works with Energy Star compliant monitors; Password Protection for protecting your screen from prying eyes; SystemIQ, which monitors system and network activity to maximize performance while running After Dark; and WallZapper, for instantly turning any After Dark display into desktop wallpaper and allowing users to create their own Screen Posters. The Collection CD contains both Windows and Macintosh versions and runs on the new After Dark 3.0 engine. ($39.99) Berkeley Systems, Inc., 2095 Rose St., Berkeley, CA 94709. (510)540-5535.



3D LANDSCAPE

AMERICA'S CIVIL WAR

America's Civil War: A Nation Divided, a well-researched, information-rich Windows CD-ROM answers all the questions anyone might have on the war between the states. Search its huge database by hundreds of attributes, including date, name, event, blockade, invasion, cavalry, retreat, profiteering, and many more. Famous battle grounds will come alive as you watch video clips with sound of reenactments. Over one hundred colorful maps depict everything from minor skirmishes to epic battles to colossal blunders. ($59.95) Software Marketing Corp., 9860 S. 51st. St., Bldg. A-131, Phoenix, AZ 85044. (602)983-3377.

THE PERFECT RESUME

The Perfect Resume, a Windows-based CD-ROM, helps users create effective resumes, write dynamic letters, and build a job search database. It includes fifty video clips with the advice of author and consultant Tom Jackson, over 140 sample resumes, a resume builder, a job search manager, and a "power letters" module with samples of cover and follow-up letters. The software also provides users the opportunity, free of charge for one year, to post their resumes on America Online's Resume/Talent Bank. ($40) Davidson & Associates, Inc., 19840 Pioneer Ave., Torrance, CA 90503. (310)793-0600.

POWER SPANISH FOR WINDOWS

Power Spanish packs the equivalent of one year of college-level Spanish into a self-guided, interactive language course on CD-

RACKMOUNT

Computer Systems

APPRO

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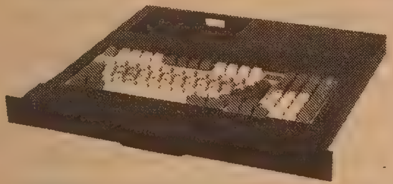
MONITORS

- 9" to 20" Diagonal Sizes
- Monochrome or Color SVGA Monitors
- Monitor Kit for Desktop Monitors Available

ENCLOSURES

- 20 Different Models
- Designed for 8,12,14,20 Slot Board
- Up to 8 Drive Bay & 600W Power Supply
- Redundant Power Supply (Optional)

101 KEYBOARD



- Full travel drawer mounted 101 keyboard with mouse holder & 22" rail
- Heavy duty steel construction
- IBM PC AT fully compatible

HARD DRIVE ENCLOSURES

- Designed for 4 Full Height or 8 HH Drives
- Up to 600W Power Supply (2 x 300W PS)
- Redundant Power Supply (Optional)
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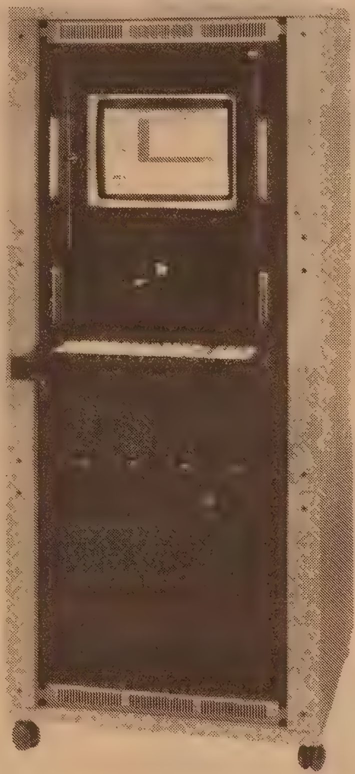
RACKMOUNT SERVER SYSTEM

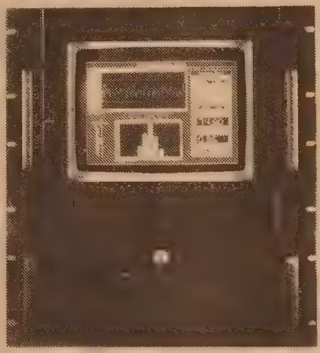
Available as parts or complete system



17" Monitor Enclosure

- 19" Rackmount chassis
- Adjusts to most 15" to 17" desktop monitors
- Lexan face plate

RACKMOUNT SYSTEMS



- 19" Rugged chassis with up to 600 watt P/S
- Motherboard or Backplane up to 20 slots
- 286, 386, 486, or Pentium systems
- Rackmount SVGA Monitor
- Fully Assembled with 48-hour burn-in

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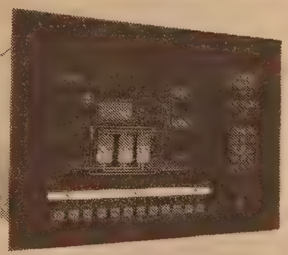
- 9" Monochrome or 10" Color SVGA Monitor
- 3 External and 2 Internal Drives
- Membrane 101 Keyboard

NEMA 4/12 INDUSTRIAL WORKSTATIONS



- 286, 386, 486, or Pentium systems
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- 9", 10", or 14" Mono or Color Monitor
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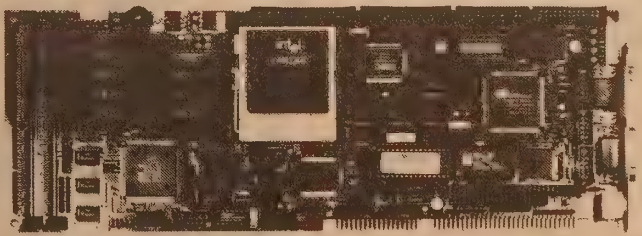

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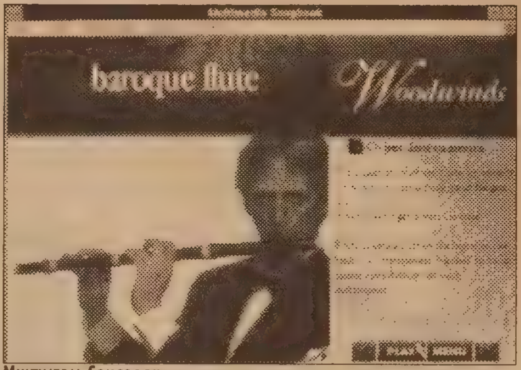
Product Spotlight *continued…*

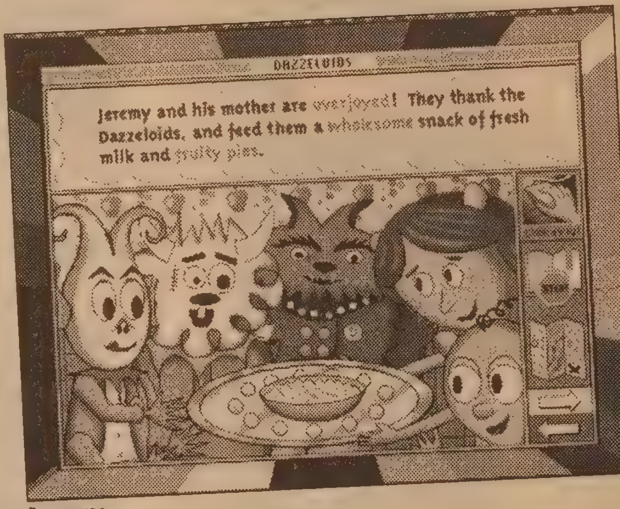
ROM—teaching you to read, write, speak, and understand basic Spanish in just six to ten weeks, spending one hour per day, five days each week. It uses engaging interactive video and audio clips, animations, games, and drills, and comes bundled with a copy of MicroTac Software's Spanish Assistant automated text translation software. Power Spanish utilizes the same learning methodology pioneered in BayWare's Power Japanese for Windows, and has several new learning aids, including VoiceStretch, which lets you slow down or speed up the playback of every word and phrase in the program; TurboTrans, a function that provides instantaneous translation and pronunciation; and Voice Record/Compare, for comparing your pronunciation to native speakers. ($239) BayWare, Inc., 1660 S. Amphlett Blvd., #128, San Mateo, CA 94402. (415)286-4492.



MULTIMEDIA SONGBOOK

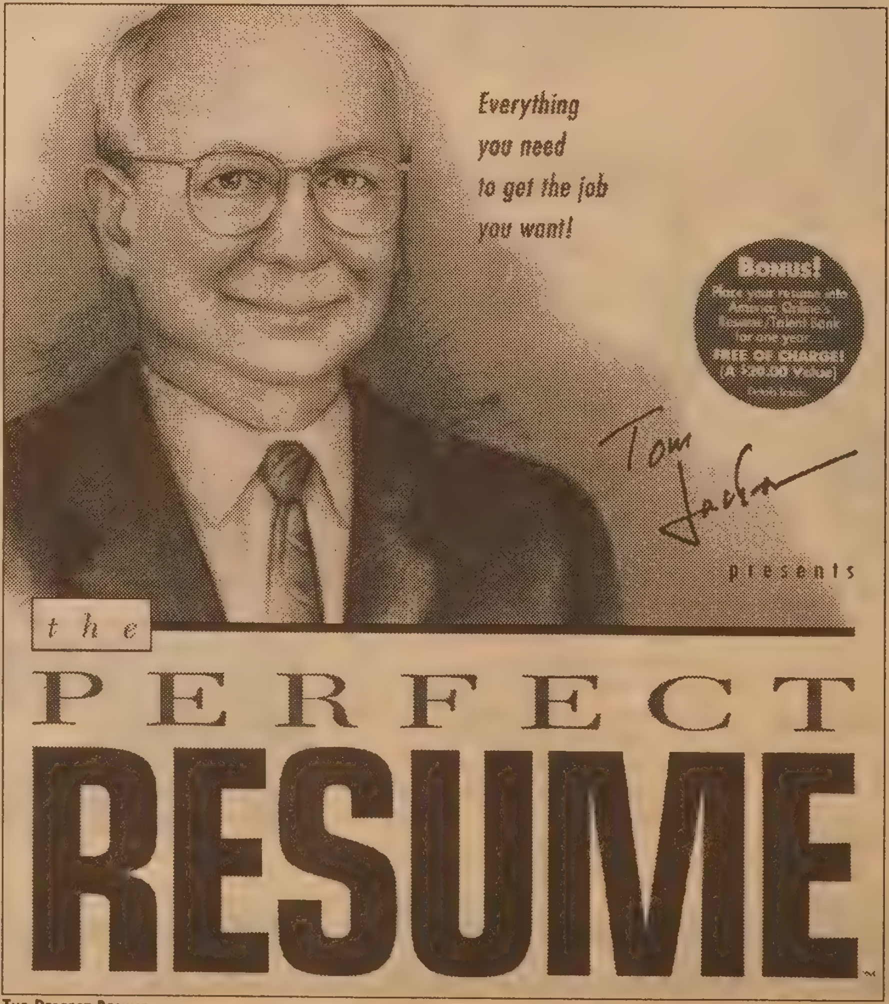
DAZZELOIDS

Created expressly for the CD-ROM format by acclaimed digital author and artist Rodney Alan Greenblat, Dazzeloids features original stories about a team of quirky superheroes out to save the inhabitants of Compli City from boredom and the evil corporate giant Mediogre. The CD contains two stories (A Child Is Bored and Banker, Spare the Petshop); Dazzeloid Dreams, which gives a rare and privileged glimpse into the subconscious of the characters; Meet the Dazzeloids, which offers a user-controlled 3-D view of each character as well as its history, its good side, and its bad side; and How It Works, which explains the many features of the program. ($39.95, Macintosh and Windows) The Voyager Co., 578 Broadway, Suite 406, New York, NY 10012. 1-800-446-2001.



Jeremy and his mother are overjoyed! They thank the Dazzeloids, and feed them a wholesome snack of fresh milk and fruity pies.

DAZZELOIDS



THE PERFECT RESUME

LANDDESIGNER MULTIMEDIA FOR GARDENS

LandDesigner Multimedia for Gardens, garden and landscape design program, provides complete garden design capabilities, including drawing and editing tools, hundreds of pre-drawn graphic symbols, and automated cost and material calculations. In addition, it features over one thousand high-quality full-color photographic images from the White Flower Farm catalog and an audio botanical name pronunciation guide. LandDesigner comes with an extensive plant database that has sixteen different fields of information for each plant, including common and botanical name, USDA growing zones, height at maturity, life span, sun, water and soil preferences, flower season and color, and suggested plant combinations. The database is searchable by any combination of plant characteristics, and is user-expandable. ($49.95) Green Thumb Software, Inc., 75 Manhattan Dr., Suite 100, Boulder, CA 80303. 1-800-336-3127.

MULTIMEDIA SONGBOOK

Multimedia Songbook provides a fun way to explore and interact with hours of music ranging from Beethoven's Fifth Symphony to Jamaican reggae and the doo-wop style of the 1950s. Users can choose their favorite songs and watch the songs play as the notes and lyrics are highlighted on a musical score. Additional textual information about the song and composer is included. For those interested in a deeper understanding of musical instruments, the Instrument Gallery allows a user to see how each instrument is held and hear the sounds of more than fifty instruments ranging from the medieval coronetto to the modern-day electric guitar. Multimedia Songbook can also be used to play background music while running other programs in the Windows environment. A song list can be created and run using any of the 250 songs on the CD. ($39.95) Midisoft Corp., PO Box 1000, Bellevue, WA 98009. (206)881-7176.

ART TEXTURES

Art Textures and Backgrounds Volume One is a collection of photographic textures and backgrounds in Kodak Photo CD format.

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101 Enhanced Keyboard
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16MB, 540MB SVGA SYSTEM

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SVGA NI Monitor .28DP
2 S, 1P, 1 Game Port
Medium Tower Case w/230 WPS
101 Keyboard
MS Compatible Mouse

Complete

$2259

MULTIMEDIA

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Sound Blaster MCD 16	125
Discovery CD-16 Kit	265
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Chinon Dual Speed SCSI CD-ROM	235
Mitsumi Double Speed CD ROM Drive	149
Toshiba Double Speed CD-ROM	289
Teac Quad Speed CD-ROM	359
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486SX-33 4MB	$1099
DUAL SCAN	
486DX-33/66 4MB	1999/2155
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Toshiba	CALL
Texas Instruments Travelmate	CALL

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Trident 8900 w/1M	65
Tseng ET 4000 w/1M	85
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Diamond Speedstar Pro ISA/VL	110
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Diamond Stealth 24 ISA/VL	130
Number 9 GXe 12 w/3MB	415
Diamond Viper VL w/2M	CALL
ATI Ultra Pro w/2M	CALL

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Adaptec 2842VL/Kit	259
Adaptec PCI SCSI Master	299

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486-33/66DX/VL	235/335
486-25 SX	135
Blue Lightning 75MHz	279
P-5/90MHz, PCI	1039

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3-Button Mouse	$12
Logitech 2-Button	22
Logitech Mouseman/Bus	55/59
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Qtronic Trackball	39
Kensington Expert Mouse	99

MISC.

Hayes Accura 14.4 Fax/Modem	$105
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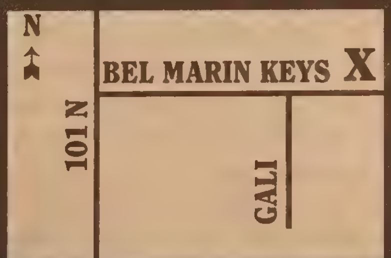

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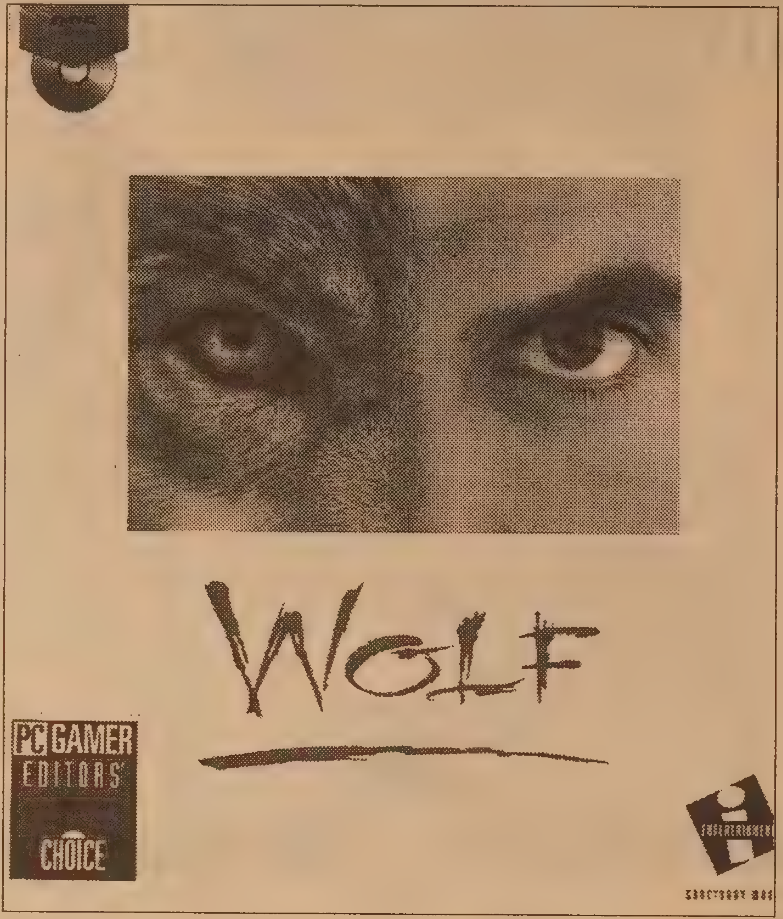
Product Spotlight *continued . . .*

Designers, illustrators, multimedia developers, and corporate communicators can easily incorporate any of the CD's one hundred images into their work to create highly stylized graphics, fonts, and presentations, as well as illustrations and 3-D objects. These images were created by commercial photographer and FotoSets founder Robin Ginsberg especially for this Photo CD collection. The images on Art Textures and Backgrounds are royalty-free and are licensed for unlimited use in advertising, presentations, and publications. ($249 introductory price through December 31, 1994. Regular suggested list price, $349) PhotoSets, 4104 24th St., San Francisco, CA 94114. 1-800-577-1215.



WOLF

RESCUE THE SCIENTISTS

The Rescue the Scientists CD-ROM (for DOS) leads kids on a chase through time and space while teaching historical and scientific facts. Players must travel through time to find scientists who have been kidnapped by aliens and had their memories erased to prevent their important discoveries from being made, then gather enough artifacts to remind them who they are and what they have accomplished. The game consists of a mix of arcade sequences and problem-solving puzzle games like jigsaws, word searches, and card games. ($49.95) Compton's NewMedia, 2320 Camino Vida Roble, Carlsbad, CA 92009. (619)929-2500.

HUMAN CALCULATOR

The Human Calculator is a fully animated CD-ROM (for DOS) that features creative math strategies and action-packed math games from Scott Flansburg, the "Human Calculator" himself. It uses nontraditional methods to teach addition, subtraction, multiplication, and division through adventures with "Cal," an animated calculator. In addition to math lessons, tests, and games, The Human Calculator also teaches "Cool Tricks," such as how to calculate cube roots instantly in your head and figure out the day of the week of any date in the past, present, or future. ($39.95) Compton's NewMedia, 2320 Camino Vida Roble, Carlsbad, CA 92009. (619)929-2500.

THUMBELINA

Thumbelina's Giant Book of Adventures is a CD-ROM for both PC and Macintosh based on the new animated motion picture, *Hans Christian Andersen's Thumbelina.* It allows children to interact with the characters, imagery, and songs from the movie by coloring, reading, singing along, and counting. They can also find out about the making of Thumbelina with a behind-the-scenes look at the art of cell animation. ($39.95) Time Warner Interactive Group, 2210 W. Olive Ave., Burbank, CA 91506. 1-800-482-7366.

RISE OF THE ROBOTS

Rise of the Robots is a robot fighting game that features three-dimensional photo-realistic robots with complex artificial intelligence tables that allow them to learn and anticipate their opponents' strategies and adapt their defense accordingly. The user plays a cyborg who has been sent into a military and industrial robot manufacturing plant that has been taken over by a super-intelligent, liquid metal morphing robot infected with a menacing ego virus. For one or two players, on CD-ROM or floppies for PC. ($49.95) Time Warner Interactive Group, 2210 W. Olive Ave., Burbank, CA 91506. 1-800-482-7366.

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FLASH TRAFFIC

Flash Traffic: City of Angels, by Tsunami Media and Time Warner Interactive for DOS CD-ROM, is an all-video interactive techno-thriller with over 120 minutes of full-screen, full-motion video. As FBI Special Agent in Charge, the player must lead his/her interrogation and assault teams in tracking down and stopping sinister international terrorists plotting to detonate a nuclear device hidden in Los Angeles in twenty-four hours. The interactive feature film includes multiple evolving story lines that are

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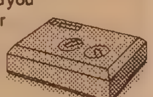
Large-scale LCD

Actually, it's the display screen from an HP laptop (we don't know which one yet). It was made by Epson, it has the Epson part number of ECM-A0234, it measures 7" x 9.25" in display area, with a .75" border, it has a 16 pin header on .1" centers, and it can be yours for only $24.95! These are factory new in antistatic bags. HSC# 15016 $24.95

Bargain Ethernet Card

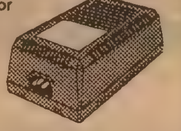
The Ansel Communications NS2104-TB will get you connected! 16-bit ISA bus card works with most leading LAN operating systems such as NetWare and LAN Manager. This particular model is a 4-port hub, with 16-bit Busmaster Software-Selectable Ethernet Adapter for either 10 BASE-2 or 10 BASE-T. These are new-in-the-box units, ready for plug & play, just run your cabling and install the software for configuration. Hurry, limited supply! HSC# 15012 $39.95

Give your Mac Vision!



With MacVision (and a video camera) your Macintosh will be able to see the outside world! Capture video stills from any composite video source (camera, VCR, video disk) and you can commit a B & W image to a disk file for editing with your paint program. New in the box unit with cables and power supply. Works with Mac II, SE or Plus, System 4.1+ HSC# 80150 $39.95

NeatBitz...



A. Handy Power Supply #1 -- Beautiful little switching power supply rated at 5VDC, 3A measures 2.75 x 3.25 x 5.25", has standard IEC receptacle for universal (100 - 250VAC, 47 - 63 Hz) input. IEC cord not included, see "C" below. Output is through 6' cord with DIN plug that may be cut off for your own plug to be installed. New in box. HSC#14996 $5.95

B. Less-Handy Power Supply #2 -- similar in appearance to "A" above, this is a linear supply rated at 12VDC @ 1200 mA, but the input is strapped for 240 VAC input. Use as is with 110VAC for lower voltage output, or open it up and re-strap it for 110VAC use. (Or inquire about our stock of foreign IEC cords to use as is with 240 VAC!) Measures 2.5 x 4 x 6.5", and will need a standard IEC cord ("C" below). HSC#14980 $5.95

C. Standard IEC Power Cord -- many uses, including powersupplies "A" & "B" above or drive case at left. HSC#80119 $.99

D. Network Installation Special -- Dual Terminal Kit. Contains two high-quality ten-foot RG-58 coax cables with BNC's, two BNC tee's, two BNC 50Ω terminators, one BNC coupler. Enough to cable two Thin-net stations to the wall-plate! HSC# 14967 $9.95

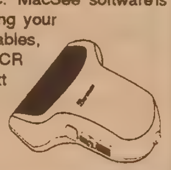
E. VGA to RGB Cable -- Ten foot cable has high-density 15-pin D-sub (VGA type) connector on one end, and 5 BNC connectors on the other: Red, Green, Blue, Horizontal and Vertical synch. Perfect for those high-res CAD monitors! HSC# 14963 $14.95

F. "Doorknob" Capacitors -- 440pF @ 40KV, made by Murata. HSC# 15021 $6.95 Some other values available, inquire.

Scanners for Macintosh!

Don't re-type that document into your Mac...don't paint the Mona Lisa with your mouse...just "Scan it!" with these handy scanners!

A. 256 Gray Scale Hand Scanner -- SCSI interface, 100 to 400 dpi, eight-bit (256 shades of gray), 4.134 inch scan path. Image enhancement software with customizable tool & filters palette, edge detection, etc. New in box with adaptors, cables, manual & software. Requires Mac SE/30 or II family, 8-bit video card, 2 MB RAM. 90-day warranty. HSC# 14808 $79.95



B. "Speed Reader" B&W Hand Scanner -- SCSI interface, 100 to 400 dpi, dithered or Black & White modes, 4.134 inch scan path. Handy for scanning halftones, line-art, etc. "MacSee" software is a simple B&W paint program for editing your images. New in box with adaptors, cables, manual & software. Use with your own OCR software (sorry, we don't have any) for text recognition. Requires Mac Classic, SE, LC, SE/30 or II family, 1 MB RAM. 90-day warranty. HSC# 14809 $49.95

Listen to your Computer!

...with these external speakers by Labtec. Perfect for use with any sound card or personal stereo system, they feature magnetically shielded enclosures, "enhanced bass-response cabinet design", 40 - 16000 Hz freq. response, 3" speakers, 4 watt amplifiers (when 2 C-cells per side are installed) and attractive beige styling. Model CS-550 has bass-boost and treble-boost switches, volume control. These were factory returns, should be OK. HSC#14977 $9.95

We Buy Computers, Components and Closeouts!

Did your company just change their product line, and now you have excess inventory? Did you just upgrade your whole office network to Pentium machines, and you're wondering what to do with the 386 boxes you pulled out? Did a customer return a large quantity of disk drives to you and you don't know where to store them? Call us or fax us with a list of your unneeded inventory, and let us make you an offer. You recover space, your investment, and peace of mind, while we recycle your former problem into new usefulness for a future with a budget to keep. It's a situation where everyone wins! Call us today, or fax to (408) 732-6428.

RF/Microwave Goodies for the High (Frequency) Minded...

We recently received a nice selection of Hewlett Packard RF/ Microwave devices for all you high-freq. freaks! The following list is only a partial listing of the thirty or so numbers we have available. We have spec. sheets for all items below, we are attempting to get info on the rest of the parts we have available. Note: The TXV suffix on some of these parts means extra-high reliability (i.e. military/NASA grade), each unit was visually inspected under a microscope before being hermetically sealed.

Cascadable Silicon Bipolar MMIC Amplifiers

Part Num.	*Equiv.*	*Gain*	*Power*	*V_d*	*Bandwidth*	*Price*
HPMA 0470TXV	MSA 0470	8.5dB/1GHz	12.5dBm/1GHz	5.75 max	3dB:DC to 4GHz	$8.95

Low-noise NPN Silicon Transistors

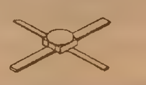
Part Num.	*Equiv.*	*Gain*	*Power*	*V_{CBe}*	*I_c (mA)*	*Noise Fig.*	*Price*
HXTR 3103TXV	2N6838	15dB/1GHz	21dBm/1GHz	30 max	70 max	1.8dB/1GHz	$5.95
HXTR 6101TXV	2N6617	13.5dB/2GHz 9.0dB/4GHz		35 max	20 max	1.6dB/2GHz 2.8dB/4GHz	$6.95
HXTR 6103TXV	2N6618	12dB/2GHz		30 max	20 max	1.8dB/2GHz	$5.95
HXTR 6104TXV	2N6743	14dB/1.5GHz		30 max	20 max	1.4dB/2GHz	$7.95
QXTR 3968	AT41435	14dB/2GHz 10dB/4GHz	19dBm/2GHz 18.5dBm/4GHz			1.7dB/2GHz 3.0dB/4GHz	$7.95

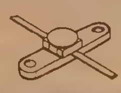
High-gain NPN Silicon Transistors

Part Num.	*Equiv.*	*Gain*	*Power*	*V_{CBO}*	*I_c (mA)*	*Price*
HXTR 5101TXV	2N6701	13dB/2GHz 7.5dB/4GHz	23dBm/2GHz 22dBm/4GHz	45 max	100 max	$7.95
HXTR 5102TXV		11.5dB/2GHz	29dBm/2GHz	45 max	250 max	$9.95
HXTR 5103TXV	2N6741	11dB/2GHz 7dB/4GHz	23dBm/2GHz 22dBm/4GHz	45 max	100 max	$6.95

PIN Diodes

Part Num.	*Power Diss.*	*Residual Resistance*	*Recovery Time*	*Cap.*	*Comments*	*Price*
5082-3001TXV	250mW	1Ω	100nS	.25pF	Gen. Purpose	$2.95
5082-3168TXV	250mW	.5Ω/100v	12nS	2pf/20V	Band Switching	$3.95





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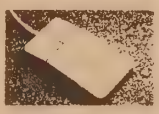
...mean savings for you! Original Equipment Manufacturers (computer makers, for example) buy their components and subassemblies in bulk without the pretty boxes, and build or bundle the items with their product. Sometimes they buy too much, sell the excess to us, and we pass on the savings!

A. Internal 2400 BPS Modem by Everex...just the new card, no software, cables or book. Log onto the Infobahn without paying for glitzy packaging! HSC#15101 $14.95

B. Eight-bit VGA/EGA Card, 256K VRAM, non-upgradeable, may be used. HSC# 15059 $19.95



C. High-Quality Optical Mouse (shown at right) -- serial interface (9-pin "D-sub") two-button mouse by Mouse Systems, comes with 7" x 7.75" mousepad. No mechanical parts to wear out or get dirty...no balls to clean! New, with driver disk, OEM version (no book or box). HSC# 14719 $14.95

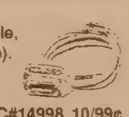
D. Sixteen-bit MFM Hard/Floppy controller, DTC 5280 CRA, 2:1 Interleave HSC# 14680 $19.95

More NeatBitz...

A. PC/XT/AT Keyboard Extension Cable, beige, coiled, streches to 10' HSC# 15058 $2.95

B. Ultrasonic Transducer Emitter/Receiver set -- the kind that are so handy for sonic ranging, intrusion detection or control projects. Identical .63" dia. housings have 40 KHz transducers made by Murata/Erie. Receiver is rated at -68dB min. sensitivity, transmitter is rated at 110dB min. sound level. Sold as a set. Specification diagram included. HSC#14682 $3.95

C. Mouse Systems Trackball -- A cluttered desktop need not prevent you from using a decent pointing device for your Windows wandering...use a trackball! No clear space needed for rolling around, it just sits there while your fingertips direct your cursor. 100% Microsoft compatible, uses only 4" x 5.5" of desk space and a serial port. New in box with drivers and software to create custom drop down menus for your "non-mouse-able" programs. HSC# 15009 $27.50



D. HPIB Cable -- genuine Hewlett Packard (#92220R) HPIB/GPIB interface cable, 1 foot long. Has dual stackable 24-cond. connector at each end (one is right angle). Fully shielded, rugged metal hoods. HSC# 14803 $12.50

E. Vinyl Binder Sleeve, holds four 3.5" diskettes, for regular 3-ring binder. HSC#14998 10/99¢

F. Auto Cigarette Lighter Plug w/Coiled Cord -- perfect for radar detectors, handy-talkies, CD players, etc. Coiled cord is 8 ft. long, with a set of adaptors for most types of input jacks, good for 2A @ 12VDC. Compare at $9.95 at the Shack! HSC# 14747 $2.95

Terms: Some quantities limited; all items subject to prior sale. **Minimum order: $10.00 plus shipping.** Orders under $20.00 subject to $2.00 handling fee, in addition to shipping. All orders shipped FOB Santa Clara, CA (this means you pay freight!) by UPS Surface (no P.O. Boxes) unless otherwise specified, in which case prevailing carrier rate plus $5.00 handling fee applies. Prepaid orders that don't include shipping charges will be shipped freight COD. There is a $4.50 UPS charge added to shipping charges for COD shipments. If you have questions about your order, please call Customer Service at (408) 732-1854 M-F 9AM to 5PM PST.

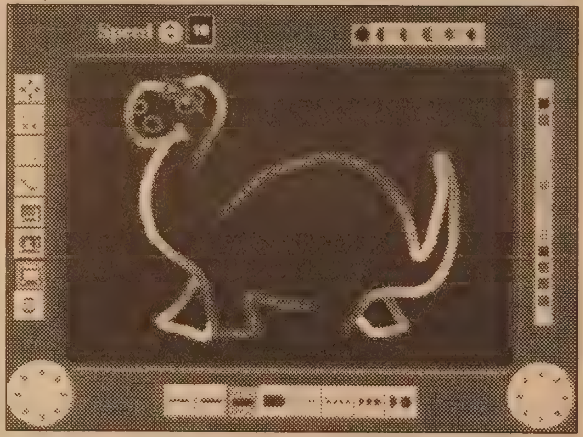
Product Spotlight *continued…*

affected by the decisions made by the player. ($39.95) Time Warner Interactive Group, 2210 W. Olive Ave., Burbank, CA 91506. 1-800-482-7366.

THUMBELINA

NEW CAR BUYERS GUIDE

Using data from the 1995 edition of the *Popular Mechanics New Car and Truck Buyers Guide*, this CD-ROM provides consumers everything they need to make an informed car purchase at the best price. Car buyers can view color photos and video footage of their dream car in action, compare and contrast vehicles, estimate car payments and yearly gas expenses, minimize research time, and learn negotiating tips. The Guide contains specific information on more than eight hundred new vehicles, including dealer prices for the vehicle and all options. ($30, for Windows 3.1) Books That Work, Inc., 2300 Geng Rd., Bldg. 3, Suite 100, Palo Alto, CA 94303. (415)843-4400.

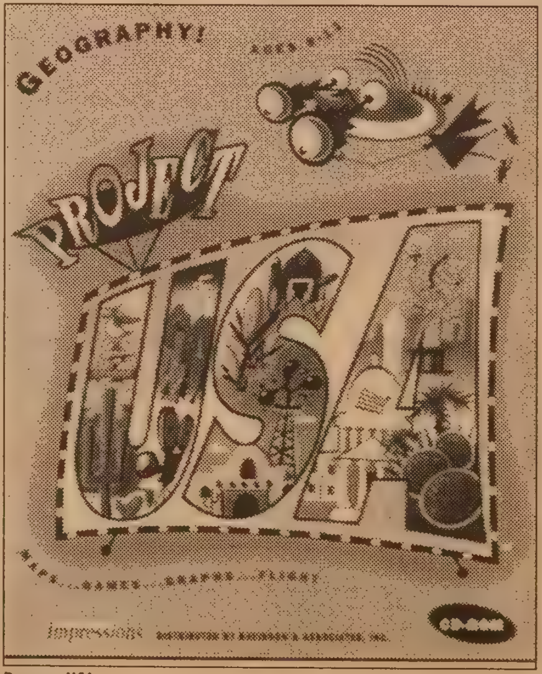


ETCH A SKETCH

MAXIS PAINT ARTIST CD EDITION

Paint Artist CD Edition is a personal creativity package that allows users to design their own greeting cards, posters, signs, banners, business stationery, business cards, and more. The CD Edition has all the features of the disk-based version, with the addition of a graphics search engine, calendars, and crafts projects capabilities; a coloring book feature; over twenty-three hundred clip art images; one hundred fonts; and a bonus CD with an additional four thousand graphics and three hundred fonts. ($59.95 for Windows) Maxis Corp., 2 Theatre Sq., Orinda, CA 94563-3346. (510)245-9700.

FLASH TRAFFIC



PROJECT USA

APPLE CD-ROM COLLECTION

In time for the holidays, Apple Computer has introduced eight CD-ROM title packs—each with three high-quality CD-ROMs plus Xpand Xpo, a virtual tradeshow on CD-ROM featuring demonstrations of all of the titles in the Apple CD-ROM Collection as well as information about ten thousand other Macintosh-related products. The Collection contains entertainment and education for every family member with topics ranging from a tour of the solar system to learning to count. Collection titles include: Smart Fun for Kids, Cool Fun for Kids, Adventures for Kids, CyberArcade, Holiday Selections, Sports and Humor, Encyclomedia, and Learning for Adults. ($43.50) Apple Computer, Inc., 20525 Mariani Ave., Cupertino, CA 95014. 1-800-538-9696.

R. CRUMB SCREENSAVER & COMPANION

Byron Preiss Multimedia has published a CD-ROM for Macintosh and MPC/Windows based on the works of Robert Crumb, the legendary underground cartoonist and creator of Mr. Natural, Fritz the Cat, and Keep on Truckin'. The R. Crumb Screensaver and Companion features twenty-five fully animated sequences to use as screensavers to personalize your computer screen; an electronic calendar customized with your own selection of cartoons; and a formmaker to output your own R. Crumb cartoon fax sheets, letterhead, and stationery. ($49.95) Byron Preiss Multimedia Company, Inc., 24 W. 25th St., New York, NY 10010. (212)989-6252.

RAYMOND CHANDLER LIBRARY

Trouble Is My Business: The Raymond Chandler Library is an MPC/Windows CD-ROM based on Raymond Chandler's Philip Marlowe novels and detective stories. The CD features the complete texts of Chandler's novels and stories, live-action clips from classic Hollywood movies, a video interview with a Chandler expert, voice-over narration, photographs, illustrations, and an animated map of 1940s Hollywood. ($49.95) Byron Preiss Multimedia Company, Inc., 24 W. 25th St., New York, NY 10010. (212)989-6252.

KURT VONNEGUT'S SLAUGHTERHOUSE-FIVE

Kurt Vonnegut's Slaughterhouse-Five: The Multimedia Experience CD-ROM lets the user travel with Billy Pilgrim, the novel's main character, as he is thrust through time. You are randomly taken through the events of the novel and have the chance to participate in the sound, sights, and action. The disc includes the complete edition of the novel, a video interview with Kurt Vonnegut, audio commentary, vintage photographs, illustrative drawings, and archival film footage of the historical events that shaped

Continued on page 282

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- ✚ 101-K Keyboard
- ✚ Windows Accelerator SVGA w/1 MB
- ✚ 14" SVGA .28 dp Monitor (NI)
- ✚ 72 Hour Burn-In & Fully Tested

MULTIMEDIA PRODUCTS

Sound Blaster 16-Bit	$85
Speakers Pair	20
Compro Magic CD Library Box w/ 16 CDs	99
Sony/Mitsumi CD-ROM DblSpeed	115
Toshiba CD-ROM 3401-B	265

DRIVES

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420 MB/540 MB IDE HDD	195/225
Teac 1.2/Epson 1.2 FDD	42
Teac 1.44/Epson 1.44 FDD	35
Colorado 250 MB Tape Back-Up	160
Tape Cartridges	20

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ISA IDE 2FD/2HD w/2S/1P/1G	$15
VESA IDE 2FD/2HD w/2S/1P/1G	25
Vitex AT I/O (2S/1P/1G)	12
Promise ISA IDE Cache Controller	100
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Adaptec 1542C SCSI Controller	175
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Adaptec 2842VLK VESA SCSI Controller	275
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On-Line Fax Modem 14400 Fax/14400 Modem	80
On-Line Pocket Fax Modem 14400 Fax/14400 Modem	150
On-Line 28800 Fax Modem 28800 Fax/28800 Modem	150

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Eye-Q 14" VGA Mono	105
14" SVGA 1024x768 .39	195
14" SVGA 1024x768 .28	205
14" SVGA 1024x768 .28 NI	215
ViewMagic 15" w/Microprocessor	300
ViewMagic 17".26 Tube w/Microprocessor Low Radiation	600
ViewSonic 6E SVGA .28 NI	265
ViewSonic 15EX 1280x1024 .28 NI	380
ViewSonic 17G 1280x1024 .28 NI	780
Hitachi CM 1586 15" .28	375
Hitachi NS 1764 17" .28	725

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Orchid Kelvin 64 PCI/VLB w/1 MB	140
ATI Ultra Pro PCI/VLB w/2 MB	240
ATI Turbo 64 PCI/VLB w/2 MB	290

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AT Desktop 230W Power Supply	$40
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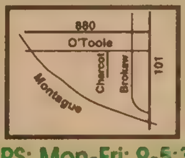

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DISPLAY	CPU TYPE	250MB	340MB	540MB
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DUAL SCAN	PENTIUM 66	2799	2899	3099
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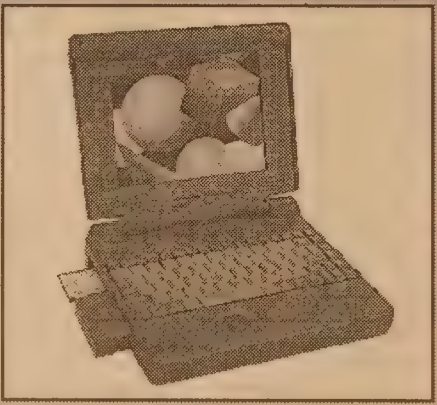
486 VESA LOCAL BUS MULTIMEDIA NOTEBOOK



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CPU TYPE	MONO	DUAL SCAN	ACTIVE MATRIX
486SX-25	$1349	$1889	$2909
486SX-33	1379	1919	2939
486DX-33	1419	1959	2979
486DX2-66	1489	2029	3049

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Upgrade To 540 MB	Add 330
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16 MB RAM	Add 835
NICAD Battery	100
N-METAL Battery	135
PCMCIA Fax Modem 96/48/24	139
PCMCIA Fax Modem 14.4/14.4	199
PCMCIA Ethernet Card Coax/UTP	205
On Site Service 1 Year	35

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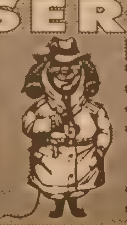

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- 101 Enhanced Keyboard
- Mid Tower Case w/230W PS

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- 3 Button Mouse

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- 420 MB IDE Hard Drive
- PCI IDE Controller w/UART 16550 Card
- I/O with 2 Serial, 1 Parallel, 1 Game
- PCI Orchid Kelvin w/1 MB Video Card
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- 101 Enhanced Keyboard
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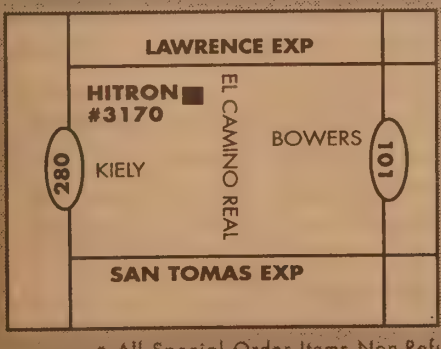

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Product Spotlight

continued from page 278

the novel. ($49.95, for MPC/Windows) Byron Preiss Multimedia Company, Inc., 24 W. 25th St., New York, NY 10010. (212)989-6252.

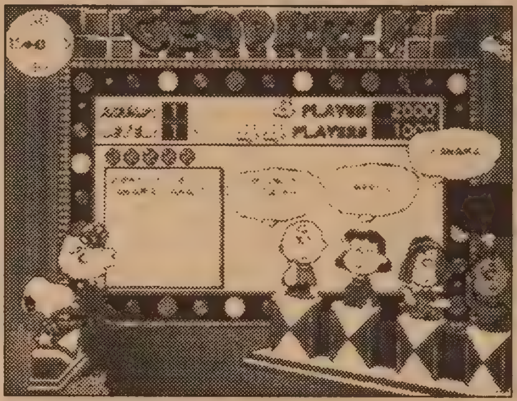
educational software

ETCH A SKETCH FOR WINDOWS

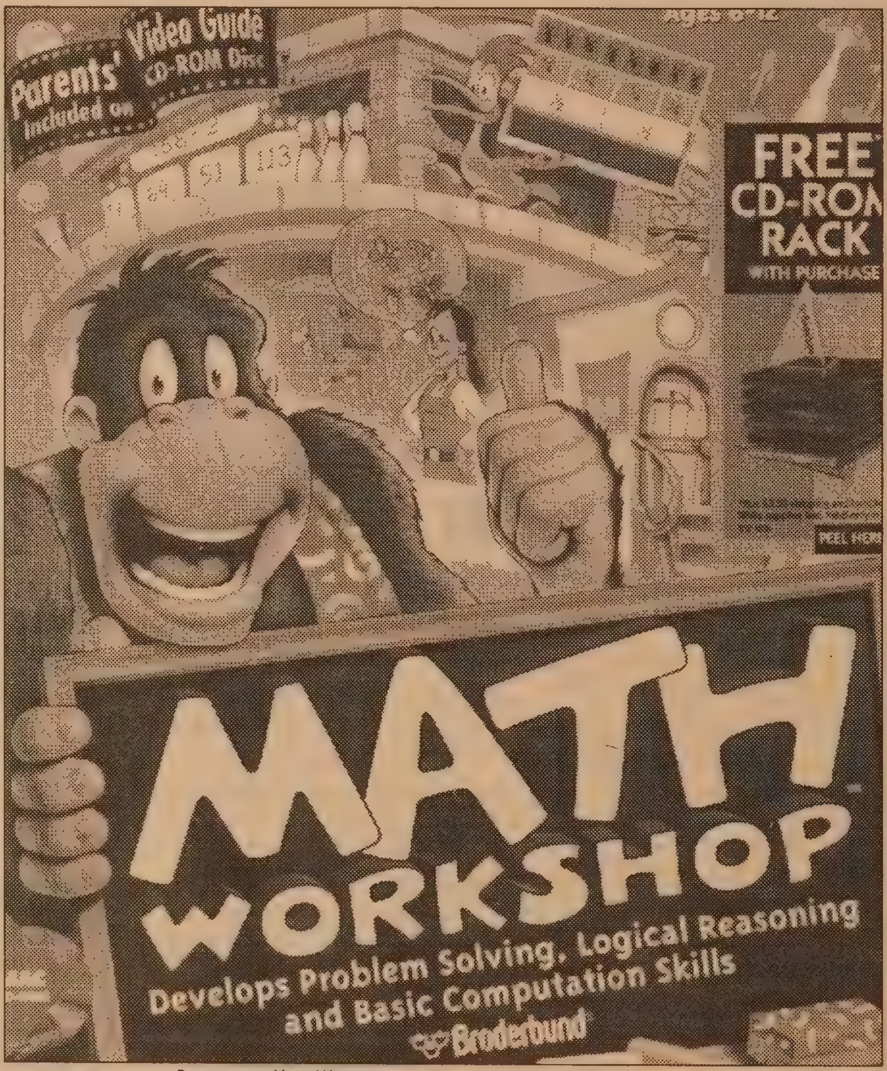
Etch A Sketch for Windows was designed to reflect the philisophy of the original Etch A Sketch, with its challenging and fun drawing styles. Like the original Etch A Sketch it challenges the design, coordination, and planning skills of children. It goes on to add computerized special effects, animation, and sounds. It also includes more than a dozen interactive games and activities to challenge kids' skills, creativity, and knowledge. The activities are organized into four sections—Let's Travel, Build-it, Draw-it, and Games. The core audience is the four- to eight-year-old range, although it has been found to appeal to older children. ($29.95) ScreenMagic, Inc., 820 Flordia St., San Francisco, CA 94110. (415)648-8056.

COUNTING ON FRANK

Designed to meet the standards of the National Council of Teachers of Mathematics, Counting on Frank builds curiosity in children ages eight to eleven about the role of math in the world around them. With a story line derived from a popular book by Australian author Rod Clement, this discovery-based learning program features an imaginative boy named Henry, his animated dog Frank, and his math companion Ginger. Together they embark on a series of adventures that help youngsters sharpen their basic math skills and discover math concepts in a fun way. Counting on Frank, offering three different levels, can be customized to meet the distinctive needs of learners at various levels of math skill development. It features an online calculator, an online notebook, and online help. ($39, for both Macintosh and PC) EA Kids, 1450 Fashion Island Blvd., San Mateo, CA 94404. (415)571-1717.



Snoopy's Geography Games



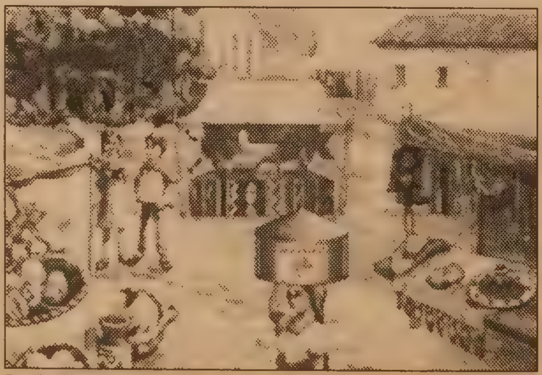
Brøderbund Math Workshop

ZURK'S RAINFOREST LAB

Designed by experienced educators for children ages five to nine, Zurk's Rainforest Lab CD-ROM features five challenging and engaging activities that invite children to learn life science and math concepts, as well as critical thinking skills. The Jungle Discovery activity takes children on a tour of a Central American rainforest. Using the camera icon, children create an electronic travel journal and practice their creative writing skills. In Seek and Sort, children identify animal types and practice basic classification. The Egg Hunt challenges children to solve problems while also observing the animal habitats and behavior. The Pattern Puzzle activities let children explore shape relationships and basic geometry. ($45, Windows and Macintosh) Soleil Software, Inc., 3853 Grove Ct., Palo Alto, CA 94303. (415)494-0114.

MAGIC THEATRE

Magic Theatre lets children easily turn their own stories and experiences into animated computer movies. Working under Windows, they can create original artwork by using multiple paint tools, some of which automatically mimic the styles of famous painters. They can also add animation, scenery, music, and visual effects from the extensive libraries provided. To develop their artistic skills, they can use the trace option, which lets them trace pictures as part of their sound recordings. Magic Theatre movies are automatically stored on your hard drive and can be copied to diskette to be shared with anyone owning a copy of the program. ($59.95, diskette or CD-ROM) Knowledge Adventure, Inc., 4502 Dyer St., La Crescenta, CA 91214. (818)542-4200.



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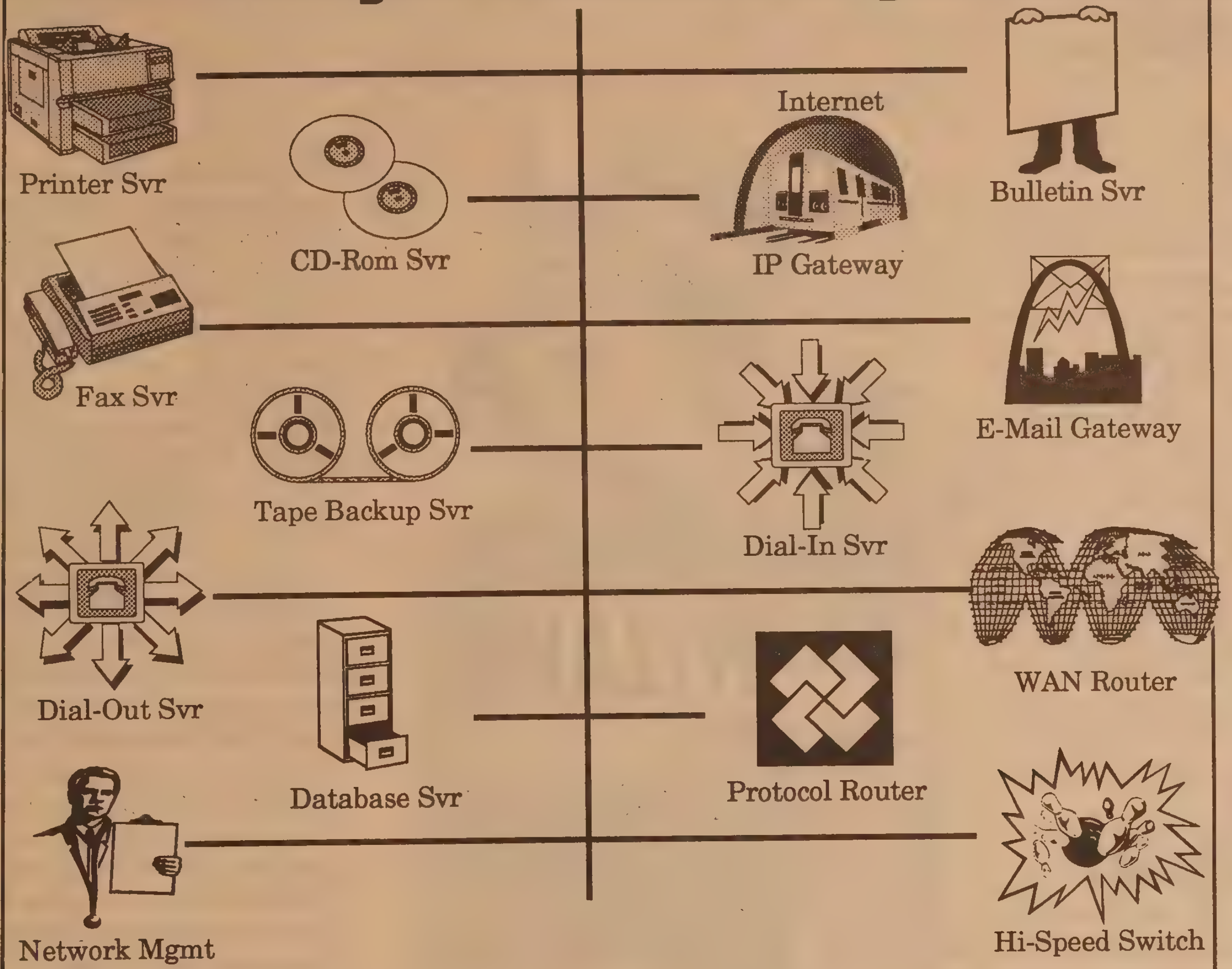
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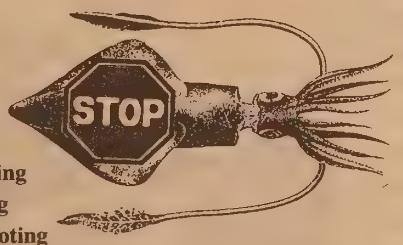

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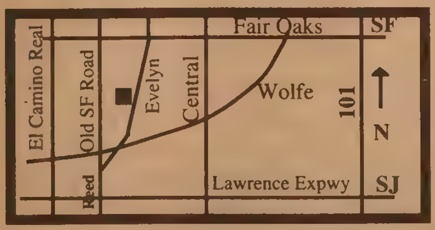
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Product Spotlight *continued . . .*

RICK RIBBIT

Rick Ribbit: Adventures in Early Learning invites you and your children (ages two to six) to visit and explore the neighborhood. Working in a nonviolent, nonthreatening entertainment environment, children choose which activities to perform and control the pace, while learning school preparedness skills. Six different learning activities teach skills of 1) shape, number, letter, and color recognition; 2) understanding directional works; 3) English phonetics; 4) set identification; 5) counting one to nine objects, and; 6) alphabetic ordering. Activities may be performed in one of five languages—English, French, German, Italian, and Spanish. ($29.95, Windows CD-ROM) Tadpole Productions, 13100 Worldgate Dr., Suite 250, Herndon, VA 22070. (703)471-7453.

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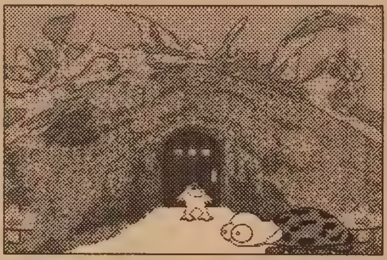


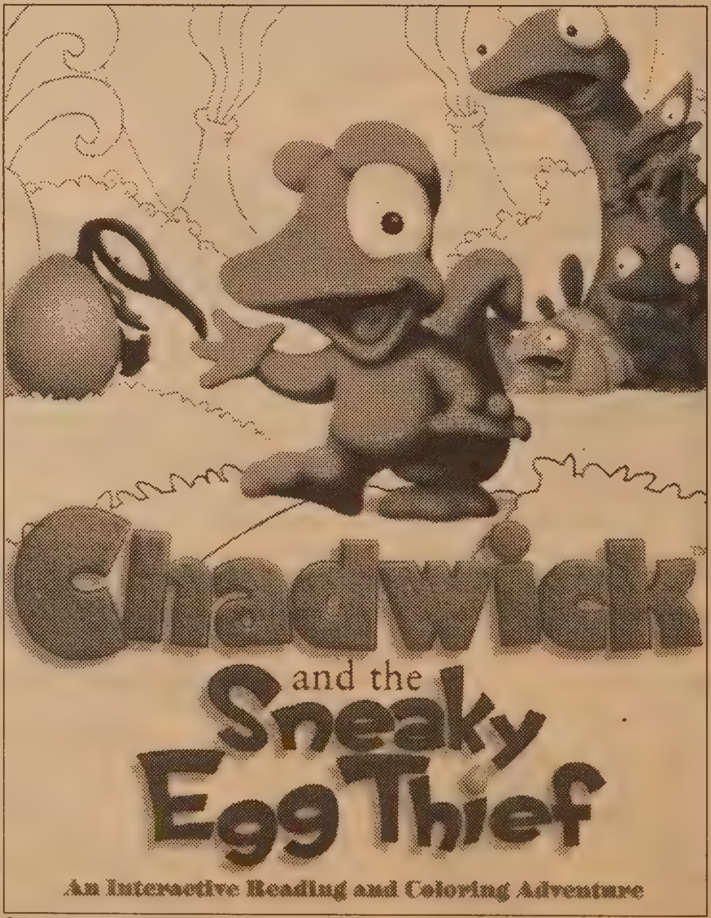
Rick Ribbit

ALDUS ART EXPLORER

Art Explorer for the Macintosh, designed for children ages nine to fourteen, is a painting and drawing program with tons of cool art, including hundreds of exceptionally high quality, fun, and unique images—background scenes, stamps, stencils, and zany characters. It lets you mix and match graphic elements, stamps, and characters from different Art Worlds to design original creations. Other features include Color Itz and Build Itz to build and color cool images; a simplified, artistic-designed interface, with colorful icons and fun sounds; artist tools like charcoal, airbrush, markers, calligraphy pens, and more. While encouraging artistic experimentation, Art Explorer offers a fun, educational way to learn painting and drawing on the computer. ($49.99) Aldus Corp., 5120 Shoreham Pl., San Diego, CA 92122-5926. (619)270-2545.

CHADWICK AND THE SNEAKY EGG THIEF

KnowWare introduces its Colortoons series with Chadwick and the Sneaky Egg Thief, a Windows- launchable, DOS-based program. This program is a 20-page interactive reading and coloring adventure to promote reading skills, build vocabulary, and encourage creativity for children ages three to eight. It features a young dinosaur, Chadwick, and his companions who tromp, sail, and soar in search of the missing egg. The screens can be colored and decorated using a set of simple but powerful tools to create a vivid, colorful, individualized cartoon adventure. Phrases are highlighted as the story is read. Click on any word to hear it pronounced; click on anything in the picture to see and hear its name. Chadwick features the voice of June Foray, whose voice is known from such classic cartoons as *The Rocky and Bulwinkle Show* and *The Flintstones*. ($49.95) KnowWare Corp., 2450 Peralta Blvd., Suite 201, Fremont, CA 94536. (510)796-9132.


Chadwick
and the
Sneaky
Egg Thief
An Interactive Reading and Coloring Adventure

Chadwick and the Sneaky Egg Thief

WOLF

Wolf is part survival adventure game and part simulation. Players act out the role of a timber, arctic, or plains wolf to experience the animal's environment and lifestyle. The sights, sounds, and even smells of the wolf's ecosystem are realized in this new game through animation, digital video footage, music, and sound effects. Throughout their quest to survive, players deal with a range of natural elements, from weather to hunters to lack of food. As in nature, your wolf becomes stronger, smarter, and faster as time elapses and you gain valuable experience as a predator. Available in both MS-DOS floppy and CD-ROM format. The CD version includes additional video material and a complete stereo CD audio soundtrack that can be played in any standard audio CD player. ($49.95) Sanctuary Woods, Inc., 1825 S. Grant St., Suite 410, San Mateo, CA 94402. (415)578-6340.

WORDSTUFF

Created for children ages three to six, WordStuff is a highly animated interactive picture dictionary in English and Spanish that gives pre-readers a head start on vocabulary and reading. Children learn more than seven hundred essential nouns and verbs and practice early sentence-building while discovering wacky animations and crazy sounds; recording their own voices; and creating and printing their own words and sentence coloring books. Kids can explore each of the four action-packed environments in three different modes: I-SPY, I-PLAY, and I-SING. Each mode, playable in English or Spanish,

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- * 15"Monitor 1280x1024 .28mm NI
- * 2 Hi-Speed Serial ,1 Parallel port
- * MS-Serial Mouse 400 DPI
- * 101 Enhanced Keyboard
- * Full Tower Case w/250w PS
- * MS-DOS 6.22 & Windows 3.11

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- * 486DX2-66Mhz Motherboard
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- * 2 Hi-Speed Serial ,1 Parallel port
- * MS-Serial Mouse 400 DPI
- * 101 Enhanced Keyboard
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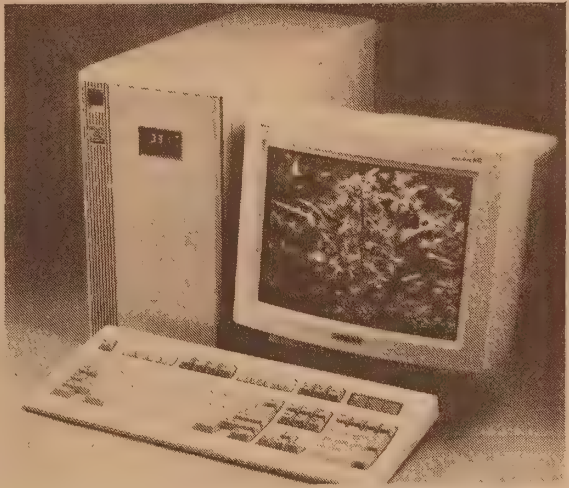

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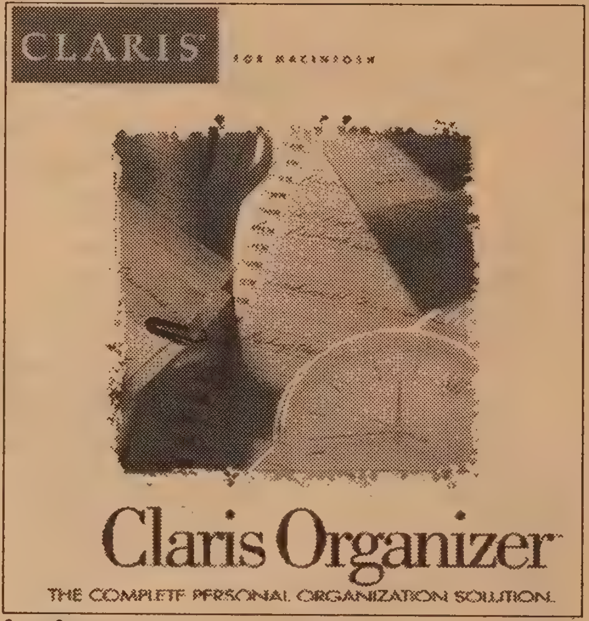
Product Spotlight *continued . . .*

allows children to build their vocabluary and understanding of new word concepts while expanding upon the learning in prior modes. Availabe in Macintosh and Windows CD-ROM formats. ($39.95; also available is a Teacher's Edition with one CD-ROM and *Teacher's Guide* for $59.95 and a comprehensive lab pack with five CD-ROMs for $119.95) Sanctuary Woods, Inc., 1825 S. Grant St., Suite 410, San Mateo, CA 94402. (415)578-6340.



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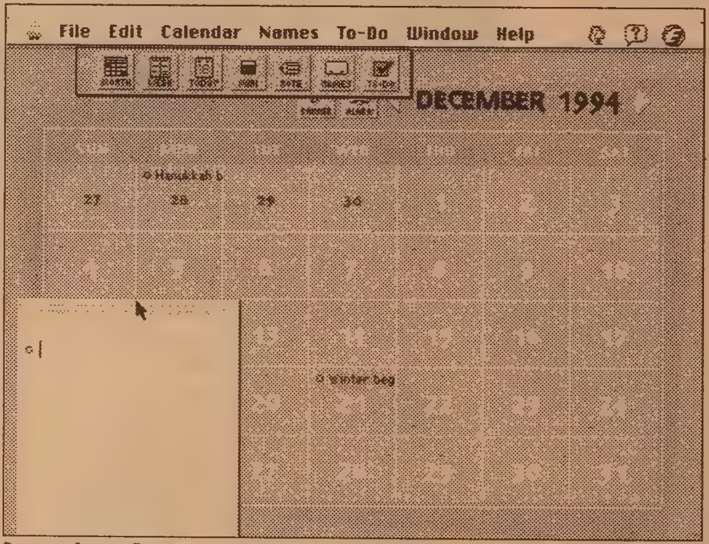
Project USA is a DOS-based geography program for children ages eight through twelve. Kids can choose four different activities: 1) The Atlas section lets them customize maps with rivers, mountains, time zones, capitol and major cities, and more; 2) the Compare section lets them compare and print out data on people, government, climate, economy, and resources using maps and graphs; 3) in the Flying Mode, kids fly their own airplane through different time zones, control speed and direction, and turbo-boost their way to their destination; and 4) the Game section is where they will learn interesting city and state information and other fun facts. After earning enough frequent traveler points, kids are promoted to Geomaster and receive a Secret Geomaster Code, which you send in to Impressions. You will then receive a special disk that places your name, school, and state into the program. Your name will be incorporated into future updates of Project USA. ($49.95) Impressions Software, Inc., 222 Third St., Cambridge, MA 02142.



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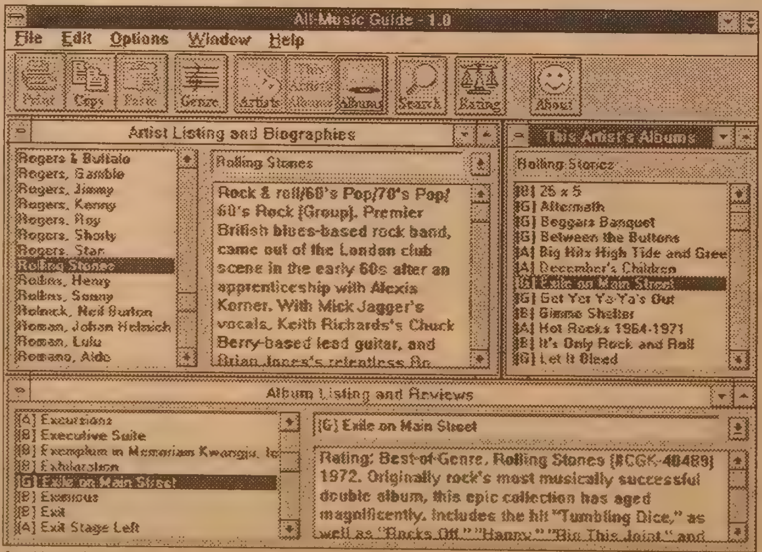
SMITHSONIAN INSTITUTE DINOSAUR MUSEUM

Dinosaur Museum CD-ROM for Windows and Macintosh transforms your computer into a time machine, using sound, lavish color, and interactive games to take you back millions of years ago when dinosaurs ruled the world. Presented by the Smithsonian Institute, with contributions from twenty-four of the world's great museums, Dinosaur Museum brings you dinosaurs of the Triassic, Jurassic, and Cretaceous periods, spanning 160 million years. The Museum Room provides life-like dioramas and exhibit skeletons, plus compete information about the size, classification, behavior, and fossil distribution of various dinosaurs. The Conservatory features exhibits on biology of the Mesozoic Era, extinction theories, myths, Who's Who in dinosaur discoveries, and more. There are also film clips from great movies dating as far back as 1912. Players who score 80% or more in the Game Room can visit the Hall of Fame Room to view one hundred dinosaur photos in full-screen 3-D. ($59.95) Software Marketing Corp., 9860 S. 51st. St., Bldg. A-131, Phoenix, AZ 85044. (602)983-3377.



Rogers & Buffalo
Rogers, Gamble
Rogers, Jimmy
Rogers, Kenny
Rogers, Roy
Rogers, Shorty
Rogers, Star
Rolling Stones
Rollins, Henry
Rollins, Sonny
Rolnick, Neil Burton
Roman, Johan Helmich
Roman, Lulu
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Rolling Stones

Rock & roll/60's Pop/70's Pop/ 60's Rock [Group]. Premier British blues-based rock band, came out of the London club scene in the early 60s after an apprenticeship with Alexis Korner. With Mick Jagger's vocals, Keith Richards's Chuck Berry-based lead guitar, and Brian Jones's relentless Ro

Rolling Stones

[B] 25 x 5
[G] Aftermath
[G] Beggars Banquet
[G] Between the Buttons
[A] Big Hits High Tide and Gree
[A] December's Children
[G] Exile on Main Street
[G] Get Yer Ya-Ya's Out
[B] Gimme Shelter
[A] Hot Rocks 1964-1971
[B] It's Only Rock and Roll
[G] Let It Bleed

[A] Excursions
[B] Executive Suite
[B] Exemplum in Memoriam Kwangju, Ic
[B] Exhilaration
[G] Exile on Main Street
[B] Exodus
[B] Exit
[A] Exit Stage Left

[G] Exile on Main Street

Rating: Best-of-Genre, Rolling Stones [#CGK-40489] 1972. Originally rock's most musically successful double album, this epic collection has aged magnificently. Includes the hit "Tumbling Dice," as well as "Rocks Off," "Happy," "Rip This Joint," and

ALL MUSIC GUIDE

KEROPPI DAY HOPPER

Keroppi Day Hopper is an interactive creative writing journal for children ages seven and older. Featuring Keroppi the Frog, children are drawn into an environment that is not only personalized and secret, but combines a daily, weekly, and monthly view calendar, an inexhaustible journal, and an address book. Each child must log on with their own secret password. Once in the program a child can access the Secret Journal, Calendar, or Address Book. The program is fully integrated with notes from the calendar appearing in the journal as creative writing prompts. Many of the most used vocabulary words produce zany sounds to keep writing fun. Hundreds of environmental and global fun facts appear in the daily calendar. ($54.95) Big Top Productions, Inc., 548 Fourth St., San Francisco, CA 94107. (415)978-5363.

BRØDERBUND MATH WORKSHOP

Math Workshop offers an entertaining new way for kids ages six to twelve to learn basic math skills and more. Created with help from both educators and kids to investigate math concepts and relate them to the real world, a Parents Video Guide video tutorial is included on the CD-ROM to provide parents with an interactive, guided tour of current trends in math education and suggested learning activities. Math Workshop, available for both MPC

Continued on page 292

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- **iamond Stealth64** VLB 1MB Video
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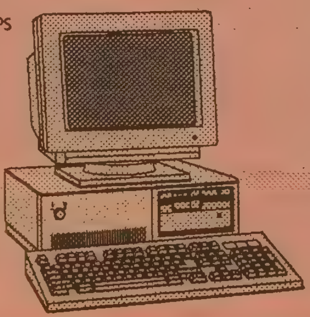

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17" Flat Monitor, PCI/Fast SCSI-2

Gemini 17 satisfies two of the most desired features in a new PC, A 17" Screen and the PCI bus. Ideal for multimedia and hard drive intensive applications

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- 1.44MB High Density Floppy Drive
- 17" **MAG** Flat .28dp NI Monitor
- **Diamond Stealth64** PCI 1MB Video
- Integrated PCI Fast SCSI-2 Controller
- Deluxe medium-tower Case w/ 230W PS
- 101 Enhanced **Mitsumi** keyboard
- Pentium OverDrive ZIF Socket
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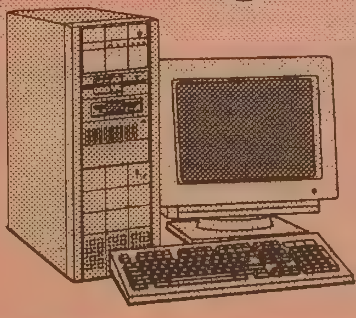

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P90 Nx586 RISC CPU, Alaris Motherboard

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- 340MB E-IDE **Western Digital** 12ms Hard Drive
- 1.44MB High Density Floppy Drive
- 15" **ADI** or **MAG** Flat .28dp NI Monitor
- **Alaris SkyEagle** VLB 1MB Video
- VLB E-IDE Controller w/ I/O's
- Deluxe Mini-tower Case w/ 200W PS
- 101 Enhanced **Mitsumi** keyboard
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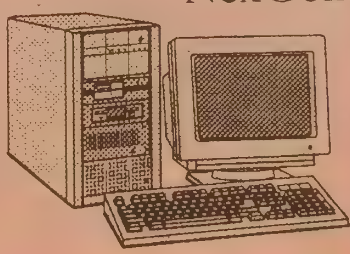

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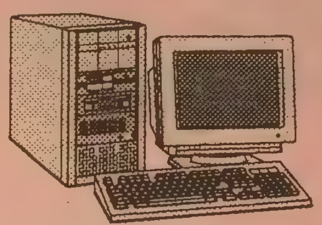

Low cost, high performance Pentium processor based system. Designed for those who strive for the Pentium power but are on a tight budget.

- **Intel Pentium** Processor 16K Cache
- Intel **Premiere**/PCI 64-bit Motherboard
- 256KB Write back static cache
- 8MB 72-pin 70ns RAM up to 128MB
- 540MB E-IDE **Western Digital 12ms** Hard Drive
- 1.44MB High Density Floppy Drive
- 15" **ADI or MAG** Flat .28dp NI Monitor
- **Diamond Stealth64** PCI 1MB Video Card
- Integrated PCI E-IDE controller
- Deluxe Mini-tower Case w/ 200W PS
- 101 Enhanced **Mitsumi** keyboard
- Pentium OverDrive ZIF Socket
- **Logitech** high-resolution mouse
- DOS 6.22 and Windows FWG 3.11 w/ Manuals

66MHz $2095

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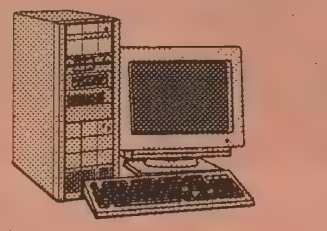
MIRAGE Pentium 90MHz

540MB Fast SCSI-2 #9GXe 64



No it's not an illusion, It's real! The Mirage combines 90MHz Pentium, Maxtor 8.5ms SCSI Hard Drive, 16MB RAM and #9GXe 64 and is still priced below $2900. Designed to satisfy the needs of power hungry/tight budget users who need the power of Pentium and the features of SCSI.

- **Intel Pentium 90MHz** Processor 16K Cache
- Intel **Premiere/PCI** Plato 64-bit Motherboard
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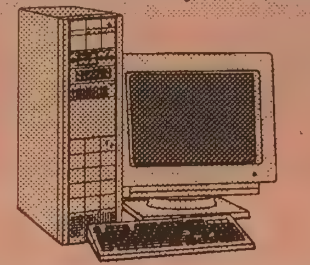
MOSAIC Pentium 90MHz

1.0GB Hard Drive, 17" Monitor



The Mosaic does not come short on any of its features, with 16MB RAM, 17" Flat screen and 1 Gigabyte of hard drive, this system will accommodate your expanding needs for many years to come.

- **Intel Pentium 90MHz** Processor 16K Cache
- Intel **Premiere/PCI** 64-bit Motherboard
- 256KB Write back static cache
- 16MB 72-pin 70ns RAM up to 128MB
- 1.0GB E-IDE **Western Digital** 10ms Hard Drive
- 1.44MB High Density Floppy Drive
- 17" **MAG** Flat .28dp NI Monitor
- ATi Ultra Pro Turbo **Mach64** PCI 2MB
- Integrated PCI E-IDE controller w/ Fast I/O
- Deluxe Full-tower Case w/ 250W PS Dual Fans
- 101 Enhanced **Key Tronic** keyboard
- Pentium OverDrive ZIF Socket
- **Microsoft** Ergonomic mouse
- DOS 6.22 and Windows FWG 3.11 w/ Manuals
- 4-Years Parts Warranty

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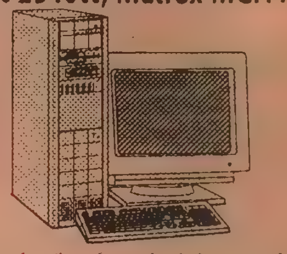
ATi TECHNOLOGIES INC.

MAJESTIC AMI Atlas VIP

Adaptec 2940W, Matrox MGA Plus



As the name implies, the Majestic is a superior system. It integrates the finest made motherboard, controller, Video and monitor. It also features the Fast & Wide technology to achieve DTR of 20MB/sec burst and 5MB/sec sustained. Ideal for complex video and audio multimedia applications where uninterrupted data transfer is essential.

- Intel **Pentium** 90/100MHz Processor 16K Cache
- **AMI Atlas VIP** PCI/VESA/ISA 64-bit motherboard
- 256KB Write back static cache
- **16MB** 72-pin 70ns RAM up to 128MB
- 1.0GB **Fast & Wide SCSI-2 Fujitsu** 9ms Hard Drive
- **Adaptec 2940W** or **Qlogic** RISC Based PCI Fast Wide SCSI-2 Controller **(20MB/sec DTR)**
- 1.44MB High Density Floppy Drive
- 17" **IDEK** .26dp 1600x1280 Monitor
- Matrox **MGA Ultima Plus** with 4MB Video RAM Option: **ATi Mach64** or **ViperPro SE**
- Deluxe Full-tower Case w/ 300W PS Dual Fans
- 101 Enhanced **Key Tronic** keyboard
- **Microsoft** Ergonomic mouse
- DOS 6.22 and Windows FWG 3.11 w/ Manuals
- 4-Years Parts Warranty

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American Megatrends

Things That Make You Go Hmmmm!!! #3

At Now We Care To Educate You!

NexGen processor based systems will soon start popping up in ads, and often will cost $200 less than a comparable Intel Pentium system. What's the catch? Three main differences between the two chips: 1) Pentium has the FPU (Math-CO) built-in, Nx586 has it optional; 2) Unlike the Pentium, Nx586 has On-chip L2 cache controller; 3) Nx586 has 32KB integrated cache, while Pentium has only 16KB. Since the Nx586 is 100% compatible with all the x86 software bases, we believe it is a good choice for applications that do not need the FPU. Our Nexus system incorporates the Nx586 processor.

SCSI interface comes in more than one standard. Basically, all provide the same function, but differ in performance. The SCSI standards are: SCSI-1 (1986) had 8-bit bus running at 5MHz clock, therefore provided the max. DTR of 5MB/sec. The Popular SCSI-2 (1992) is similar to SCSI-1 except for the capability of having wider buses and higher clock rates. With fast SCSI-2 the clock is 10MHz with 8-bit bus i.e. having 10MB/sec DTR. With fast & Wide SCSI-2 the clock is still at 10MHz but the bus is 16-bit which provides 20MB/sec DTR. With fast/Wide SCSI-2 requires special 68-pin cable. Many of our high-end Pentium systems incorporate the Fast/Wide technology.
(Note: some Quantum hard drives are described as Fast SCSI-3, which is NOT the same as Fast/Wide SCSI-2!).

In a **S**ymmetrical **M**ulti**P**rocessor (SMP) system running a 32-bit operating system such as Windows NT, UNIX MP, Solaris and OS/2, multiple operations can run virtually simultaneously. Because of the embedded features of multi-threading and symmetric multiprocessing in these OS's, during execution of an application, the OS divides tasks into independently executable threads, executed by an available CPU, therefore, improving the performance of the system dramatically. In Single processor systems on the other hand, multitasking is achieved by alternately executing instruction from two or more applications, sliced into very short time periods, thus giving the effect of running concurrently. We're currently offering machines that can incorporate the SMP technology.

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EISA/PCI 64-bit Architecture
2.1GB Fast & Wide Barracuda
20" ViewSonic Monitor

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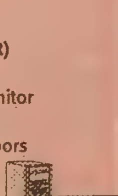
- 101 Enhanced **Key Tronic** keyboard
- 4-EISA/ISA and 3-PCI Slots
- **Microsoft** Ergonomic mouse
- DOS 6.22, Windows 3.11 FWG w/ manuals



90MHz $5995

SERVER MP

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Dual Pentium 90/100MHz
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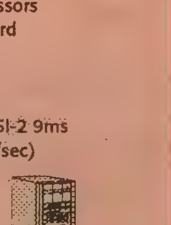
- **Server** Case **350W** PS Triple Fans w/doors
- 101 Enhanced **Key Tronic** keyboard
- 4-EISA/ISA and up to 4-PCI Slots
- **Microsoft** Ergonomic mouse



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Fault Resilient System
Upgradability to P6 Processor

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☞ MAPS

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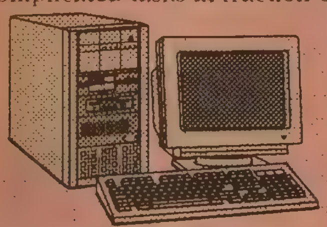
RISC MIPS R4400 and DEC 275Mhz Alpha

275MHz Alpha Processor
The Fastest Processor on earth!
17" ViewSonic 17 Monitor

There are three main features that describe this machine: 1)Speed 2)Speed 3)Speed. That is right, his amazing Alpha machine can fly through the most complicated tasks at fraction of a second.



True 64-bit **Alpha AXP** Processor
200/233/275Mhz Processor speed
2MB Secondary Cache 12ns
16MB 72-pin 60ns RAM up to 512MB
Micropolis 1.0GB Fast SCSI-2 9ms
Toshiba 3501 **Quad** Speed CD-ROM
Integrated Fast SCSI-2 controller
17" **ViewSonic** 17 .27dp NI Monitor
ATI Graphics Ultra Pro 2MB VRAM
Tower Case with 300W Power Supply
101 Enhanced Keyboard
2.88MB FDD, PS/2 Mouse
3-PCI and 3-ISA Expansion Slots
Windows NT **Daytona** (Option OSF1)

ALPHA GENERATION

digital

200MHz	$6,795
233MHz	$7,695
275MHz	$8,195

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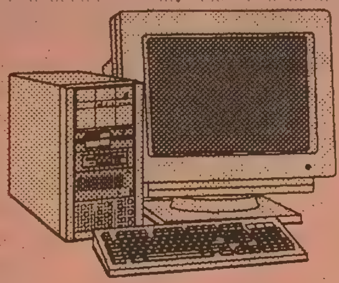
21" NEC 6FGp Monitor

When Microsoft looked for a hardware to develop NT, guess what they chose? You bet, it was the NEC MIPS RISC machines. Now you can get those same machines from us directly and save a bundle.



RISC AT NO RISK!*

- **NEC VR 4400** MIPS Processor
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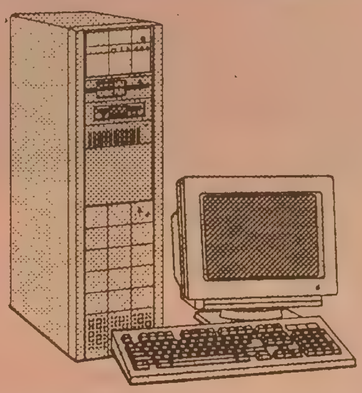
- **NEC 3Xi** Triple Speed SCSI-2 CD-ROM
- Integrated 64-bit LB Fast SCSI-2 interface
- 21" **NEC 6FGp** Flat 1280x1024 Monitor
- 64-bit Local Bus **Jaguar** Video 2MB VRAM
- Tower Case with 260W Power Supply
- 101 Enhanced Keyboard
- 1.44MB FDD, PS/2 Mouse
- Ethernet 16 Bit, 10BaseT Interface
- Windows NT **Daytona**

$8595

NEC

Dual RISC R4400 Super NT Server-NEC Express RISCServer



- Dual **NEC VR 4400MC** MIPS RISC Processors
- 75/150MHz Processor Speed
- 1MB Secondary Cache per CPU
- 64MB ECC Memory on 128-bit bus
- **Micropolis** 3.0GB Fast SCSI-2 9ms
- **NEC 3Xi** Triple Speed SCSI-2 CD-ROM
- Integrated 64-bit LB Fast SCSI-2 interface
- 14" **NEC 3V** NI .28dp Monitor
- 1MB SVGA Video Card
- Tower Case with 350W Power Supply
- 101 Enhanced Keyboard
- 1.44MB FDD, PS/2 Mouse
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- Windows NT **Daytona**

$15,995

NEC

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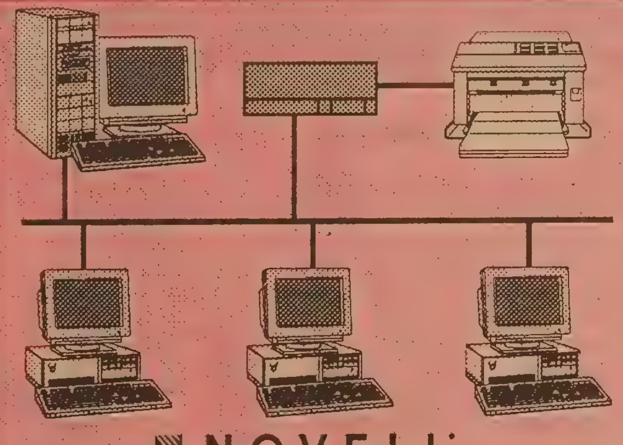

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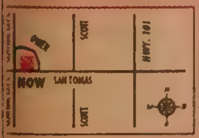
6. 30-days satisfaction money back guarantee



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PENTIUM -66/256C VLB PCI USA	268	768	N/A	1,058	1,238	1,268	1,448	1,468	1,648
PENTIUM -60/256C VLB PCI USA	268	648	N/A	938	1,118	1,148	1,328	1,348	1,528
INTEL PENTIUM -90/256C PCI	298	868	N/A	1,168	1,348	1,378	1,558	1,578	1,758
INTEL PENTIUM -66/256C PCI	228	728	N/A	1,028	1,208	1,238	1,418	1,438	1,618
INTEL PENTIUM -60/256C PCI	228	598	N/A	898	1,078	1,108	1,288	1,308	1,488
PENTIUM -90/256C VLB PCI	228	788	N/A	1,078	1,258	1,288	1,468	1,488	1,668
PENTIUM -90/256C PCI	218	778	N/A	1,068	1,248	1,278	1,458	1,478	1,658
PENTIUM -66/256C VLB PCI	188	688	N/A	978	1,158	1,188	1,368	1,388	1,568
PENTIUM -60/256C VLB PCI	188	558	N/A	848	1,028	1,058	1,238	1,258	1,438
GENOA 486DX2-66/256C PCI	178	348	$508	628	808	838	1,018	1,038	1,218
GENOA 486DX2-66/256C VLB	118	278	428	548	728	758	938	958	1,138
IBM 486BL-75/256C VLB	N/A	198	348	468	648	678	858	878	1,058
IBM 486SLC2-66/64C VLB	N/A	138	288	408	588	618	798	818	998
486DX2-80/256C VLB	N/A	308	468	588	768	798	978	998	1,178
486DX2-66C VLB	68	234	380	500	680	710	890	910	1,090
486DX-50C VLB	68	232	378	498	678	708	888	908	1,088
486DX2-50C VLB	68	178	328	448	628	658	838	858	1,038
486DX-40C VLB	68	172	314	434	614	644	824	844	1,024
486DX-33C VLB	68	164	308	428	608	638	818	838	1,018
486SX-25C VLB	68	124	270	390	570	600	780	800	980
486DLC-40/128C VLB	84	128	278	398	578	608	788	808	988
486DX2-66C ISA	58	228	374	494	674	704	884	904	1,084
486DX2-50C ISA	58	168	318	438	618	648	828	848	1,028
486SX-33C ISA	58	134	278	398	578	608	788	808	988
486SX-25C ISA	58	108	258	378	558	588	768	788	968
486SLC-33 ISA	N/A	88	238	358	538	568	748	768	948
386DX-40/128C	N/A	82	220	360	540	570	750	770	950
386SX-40	N/A	58	208	328	508	538	718	738	918

***BASIC SYSTEM:** Motherboard & CPU, 1MB RAM, IDE with I/O, 1.44MB FDD. Case with Power Supply, and 101-Key Keyboard.

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486DX2-50/128K VLB...$1,098
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486DX-33/128K ISA / VLB........798 / 808
486DX-40/128K ISA / VLB........808 / 818
486DX2-50/128K ISA / VLB ......818 / 828
486DX2-66/128K ISA / VLB ......868 / 878
486DX2-80/128K VLB 948
IBM 486SLC2-66/64K VLB 788
IBM 486 BL-75/256K VLB................848
ORCHID 486DX2-66/256K VLB.......1,018
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Pentium P5-60/256K VLB - PCI 1,378
Pentium P5-66/256K VLB - PCI 1,518
Pentium P5-90/256K PCI.............1,618
Pentium P5-90/256K VLB - PCI 1,638
Pentium P5-60/256K VLB - PCI USA1,468
Pentium P5-66/256K VLB - PCI USA1,588
Pentium P5-90/256K VLB - PCI USA1,678
Intel Pentium P5-60/256K PCI 1,438
Intel Pentium P5-66/256K PCI 1,558
Intel Pentium P5-90/256K PCI 1,708

SYSTEM CONFIGURATION

- Motherboard w/CPU
- 4MB RAM **(8MB for Pentium)**
- 340MB Fast Hard Drive
- 1.44MB 3.5" Floppy Drive
- IDE 2HD/2FD Controller w/2S/1P/1G
- 512KB SVGA Card
- 14" SVGA .28 Color Monitor
- 101-Key Enhanced Keyboard
- Enhanced Case w/Power Supply
- Microsoft Compatible Mouse w/Pad
- Free DOS 6.x

BEST BUY

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- 540MB Hard Drive ....Add $70
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Super Sales	VGA Mono	Dual Scan Color	Active Matrix Color
486SX-33	$1,378	$1,818	$2,728
486DX-33	1,418	1,898	2,778
486DX2-50	1,438	1,918	2,798
486DX2-66	1,498	1,978	2,858
486DX4-100	1,828	2,298	3,198

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- 15" Viewsonic 15EX SVGA Monitor
- Medium Tower Case w/Power Supply
- Microsof Serial Mouse
- Free DOS 6.x and MS Windows 3.11

BEST BUY

Pentium P5-60/256K....$1,948
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Orchid Gamewave Sound Card (AT)	90
Orchid Soundwave Sound Card (AT/SCSI)	158 / 178
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Panasonic CD-562 Dual Speed	**118 (w/Card 124)**
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Carmen San Diego DOS	15
CD Deluxe Pak (Chess Master 3000, Mavis Teaches Typing, US Altas, World Atlas)	14
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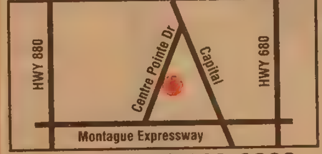

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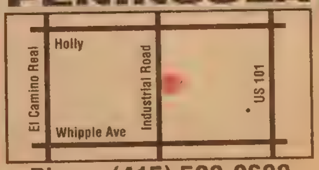

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Product Spotlight

continued from 286

Windows and Macintosh computers, makes math fun in seven different areas and includes numerous games and puzzles with playful, animated characters such as Gus the Bowling Gorilla. The program offers kids of varying abilities and ages plenty of activities so that the program grows with them. ($40) Brøderbund Software, Inc., 500 Redwood Blvd., PO Box 6121, Novato, CA 94948-6121. (415)382-4400.

ClickART
Holiday Seasonings

Click Art Holiday Seasonings

BRØDERBUND KID PIX STUDIO

Kid Pix Studio CD-ROM is a new paint and animation program that helps kids ages three to twelve to create their own multimedia paintings, animations, movies, and stories on a Macintosh. In addition to more than double the number of original Kid Pix painting tools, Kid Pix Studio offers new animation projects designed by the original Kid Pix creator Craig Hickman. Other new features include Stampscapes to create colorful background graphics that can be used in drawings, slide shows, and movies, and Musical Sounds with over eighty musical and environmental sound effects that kids can use to enliven animations. ($45) Brøderbund Software, Inc., 500 Redwood Blvd., PO Box 6121, Novato, CA 94948-6121. (415)382-4400.

SNOOPY'S GEOGRAPHY GAMES

Snoopy's Geography Games is the latest title from Image Smith's interactive educational software series featuring Charles Shultz's Peanuts characters. Throughout the program, Snoopy is the guide that lets a child travel easily between five different games. The Great Country Shoot, a circus-like game, challenges the player to shoot each of the Peanuts characters out of a canon to land on the country the narrator asks the player to locate by spinning the globe. In the Driving Game, children navigate Snoopy through a maze to learn the best route to take to get to a destination. The Compass Game helps children decipher compass directions. Snoopy becomes your host in the game show-like GeoParty. Finally, in Snoopy's Adventure Journal a voice narrates Snoopy's personal journal of his worldwide adventures. ($19.95. Available for both Macintosh and PC, on floppy disks and CD-ROM) Image Smith, Inc., 1313 W. Sepulveda Blvd., Torrance, CA 90501. 1-800-U-SNOOPY.

Sony Magic Link

MS. WINKLE'S CLASS

Ms. Winkle's Class, a CD-based learning adventure for Windows, creates an interactive classroom where users ages six to ten can enjoy exploring and sharing the class, daydreams, and even joke with the students in the class. Although children will learn and explore in a setting that is like a real classroom, the learning adventure really takes off with the daydreams of three students. One by one their imaginations run away with them, but Ms. Winkle is never far behind. Their lessons become amazing adventures. ($39.95) Abudoe Software, Inc., 320 108th Ave. N.E., Suite 500, Bellevue, WA 98004. (206)462-8303.

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Christmas for Windows

SPELL DODGER! FOR WINDOWS

Spell Dodger! for Windows helps children ages six to fourteen build fundamental spelling skills in an arcade-style maze game. It offers multiple levels of difficulty and five hundred combinations to provide unlimited game play. The software also features animations, 256-color graphics, and digitized sound effects. Students help Spell Dodger navigate his way up and down ladders and across platforms without being captured by crawling and flying monsters. As players move through the maze, they collect tokens to earn the chance to correctly spell a word and advance to another round of play. After gathering letter tokens, players have the opportunity to increase their scores by answering spelling and vocabulary problems including multiple choice, complete-the-sentence, sound-to-spell, scrambled words, and definition questions. Players can track their improvement by comparing scores in the Legion of Honor. Macintosh version is also available. ($35; also available in lab packs for $99.95 and site licenses for $499.95) Davidson & Associates, Inc., 19840 Pioneer Ave., Torrance, CA 90503. (310)793-0600.

Focus On The Future

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5. Defective items replaced or repaired at our discretion.
6. Not responsible for typographic errors.
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Product Spotlight *continued . . .*

MATH BLASTER: EPISODE 2 FOR WINDOWS

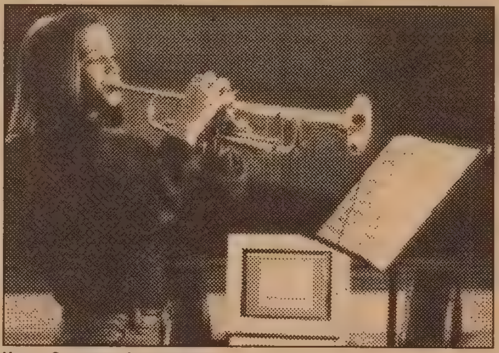
Math Blaster: Episode 2—Secret of the Lost City offers a multimedia adventure for children eight to thirteen to expand their mental math and problem-solving skills. In Episode 2, the sequel to Episode 1—In Search of Spot, children help Blasternaut and his crew complete four games to discover the secret of The Lost City and stop the evil Doctor Minus from destroying their home planet. The games contain over fifty thousand possible problems at three math levels and three game levels; seven subject areas (addition, subtraction, multiplication, division, fractions, decimals, and percents); and a customized online calculator. ($40; teachers edition, $79.95; lab packs, $179.95; site licenses, $699.95) Davidson & Associates, Inc., 19840 Pioneer Ave., Torrance, CA 90503. (310)793-0600.

3 BALLOONS: ALPHABET, NUMBERS & SHAPES

3 Balloons: Alphabet, Numbers & Shapes, for children ages three to six, is an interactive CD-ROM designed to build character recognition, writing, and spelling skills. As children explore three Virtual Playscapes, they learn the alphabet, numbers, and shapes with the help of the program's three animated guides: Anthony A for the alphabet, Hobie-1 for numbers, and Semi Circle for shapes. Other features include over ninety interactive animations representing letters, numbers, and shapes; three options for play—linear, random, or custom—that can be customized to a child's learning level; and practice pads that can be printed and colored. ($40; Teacher Edition is $69.95 and lab packs are $149.95) SWeDE Corp, 19600 Fairchild Rd., Suite 270, Irvine CA 92715. (714)442-6180.

CROSSWORD WIZARD AND IDEA WIZARD

Cogix Corporation has made available a bundle of Crossword Wizard and Idea Wizard for Windows and Macintosh. Crossword Wizard lets users create an unlimited number of custom puzzles from scratch, built around their own words and clues. Idea Wizard builds word power by revealing the lexicon behind the clues. Users can either instruct Crossword Wizard to create custom puzzles on its own, or they can specify a puzzle's size, level of difficulty, and add their own words, clues, and sounds. Idea Wizard shows the user definitions, related words, and parts of speech for any word in a puzzle. ($49.95) Cogix Corp., 419 Redwood Rd., San Anselmo, CA 94960. 1-800-455-3388.


VIVACE PERSONAL ACCOMPANIST

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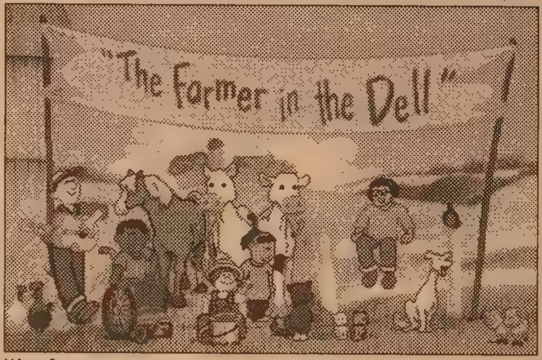
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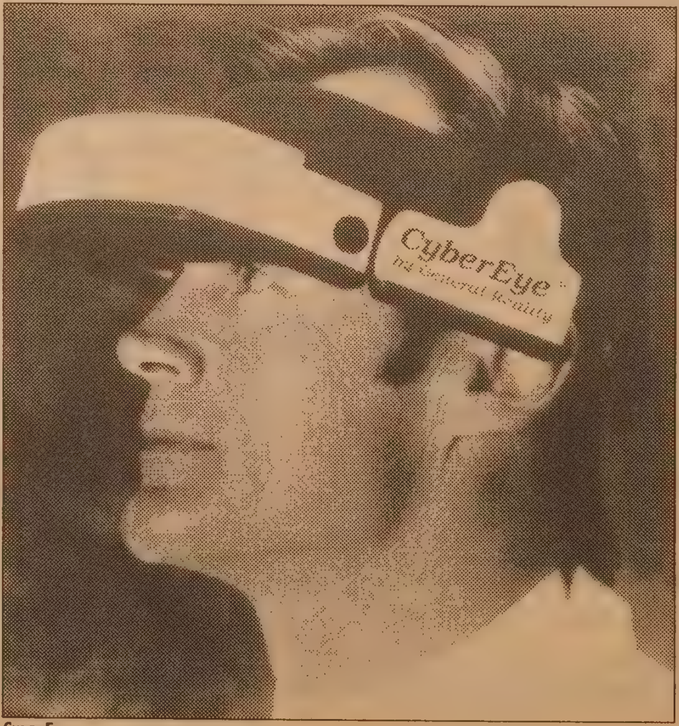
WORDSTUFF



CYBEREYE

FREDDI FISH

Freddi Fish and the Case of the Missing Kelp Seeds is an interactive adventure story for children aged three to eight. Freddi and her pal Luther must help Grandma Grouper find the stolen kelp seeds, which leads to various underwater adventures while learning interesting facts about the ocean. The story paths are selected randomly by the software, giving a different experience each time. Freddi Fish, like other Humongous Entertainment titles, is a nonviolent adventure story that encourages problem-solving and cooperation. ($39.95, for Windows) Humongous Entertainment, 16932 Woodinville-Redmond Rd. NE, Suite 204, Woodinville, WA 98072.

READING PAL SERIES

The Little Turtle and Ocean Escape are the first two titles in the Reading Pal series from Computer Curriculum Corp., Simon & Schuster's multimedia publisher for education. A young narrator helps children ages three to seven navigate through engaging stories and activities that teach reading comprehension, vocabulary, language development, memory, and listening skills. The Little Turtle, based on the classic poem by Vachel Lindsay, invites young children to follow a friendly snapping turtle on an animated adventure through puddles, over rocks, and into a field. Ocean Escape features a young boy named Gabriel who turns bath time into playtime by imagining an exciting adventure deep down in the ocean. ($49.95 for Macintosh and Windows) Computer Curriculum Corp., 1287 Lawrence Station Rd., Sunnyvale, CA 94089. 1-800-227-8324.

Product Spotlight *continued...*

macintosh software

MONOTYPE BORDERMAKER

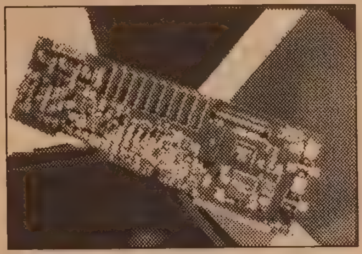
Monotype BorderMaker lets users create simple or complex borders in minutes. Users can produce borders, mosaics, or lines simply by defining the grid size and then choosing a font or group of fonts. The cells fill automatically with the correct characters. Four BorderMaker Font Packages with original hot metal ornament fonts are available (with more in development). Arabesque is based on single-leaf painting ornaments from the late 1470s. Christmas contains elements such as traditional American and European motifs, toys, ornaments, snowmen, and more. Contemporary features stylish borders and ornaments from 1950s and 1960s designs. Rococo contains typographic elements translated from eighteenth century Rococo architecture into printing ornaments. ($49.99) Monotype Typography, Inc., 150 S. Wacker Dr., Suite 2630, Chicago, IL 60606. 1-800-666-6897.

ALL MUSIC GUIDE

The All Music Guide for Macintosh is a definitive electronic resource of reviews, ratings, and commentary on more than thirty-five thousand recordings of albums, tapes, and compact discs by over six thousand artists. The software provides a simple, intuitive, and fast way to locate information on your favorite artists, groups, and albums for all music styles. Music enthusiasts can find out more information about an artist's or group's musical focus, key band members, and musical history as well as read reviews, artist biographies, and album ratings. Commentary is written by more than eighty of today's most respected music critics, reviewers, and journalists. A Wild-Card feature allows you to locate information even if you don't know the exact spelling or name. All Music Guide for Macintosh (and Windows) is based on the book *All Music Guide* by Michael Erlewine. ($49.95) Great Bear Technology, Inc., 1100 Moraga Way, Moraga, CA 94556. 1-800-795-4325.

BERKELEY SYSTEMS EXPRESSO

Expresso Calendar and Address Book is a fully functional desktop system that combines a calendar, address book, to-do list, and notepad. Its click-and- type/drag-and-drop interface makes Expresso as easy to use as paper and pencil organizers. The address book stores names and addresses, phone and fax numbers, and personal comments. Additional features include to-do lists, alarms (with snooze controls), recurring events, direct import/export from other programs, private events, banners, file synchronization, preprogrammed holidays, find, and search. FlashBack allows users to keep their calendar visible and accessible on the desktop. Instead of closing applications or searching through menus, the calendar can become the desktop background. ($49, Macintosh or Windows) Berkeley Systems, Inc., 2095 Rose St., Berkeley, CA 94709. (510)540-5535.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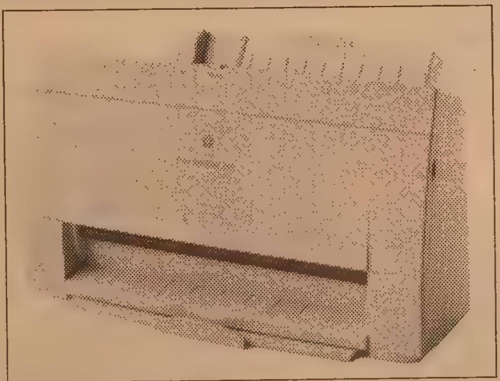

APPLE COLOR STYLEWRITER

TIMEX DATA LINK

CLARIS ORGANIZER

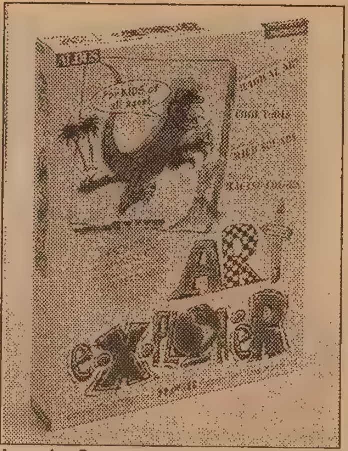
Claris Organizer for Macintosh is an all-in-one, intelligent personal information manager. It integrates calendars, contacts, tasks, and notes into one intuitive, compact solution. It will manage to-do lists, notes, appointments, and contacts; automatically link information; print calendars, address books, fax cover sheets, envelopes, labels, and more; remind the user of important appointments with alarms; import information from other information managers; track to-do items, birthdays, and holidays; find and sort information; drag and drop to link and create data; and dial the user's telephone automatically. ($99) Claris Corp., 5201 Patrick Henry Dr., Santa Clara, CA 95052-8168. 1-800-325-2747.

MDC MPOWER

mPower, a new multimedia presentation package for Macintosh allows users to quickly and easily create multimedia presentations that incorporate not only digital media content (eg. QuickTime movies and PICT files), but also analog media content (eg. from videotapes). Users can create everything from simple, static slideshows, to interactive, user-navigable presentations. mPower offers a simplified pushbutton interface similar to a bank's Automatic Teller Machine. ($295) Multimedia Design Corp., 8720 Red Oak Blvd., Suite 404, Charlotte, NC 28217. 1-800-921-9493.

GRYPHON BATCH IT!

Gryphon Batch It! offers a versatile and powerful combination of image processing and batch-mode utilities, featuring an easy-to-use graphical tile interface designed to simplify complex graphics-processing operations and reduce production time. It is designed to perform more and more tasks in succession by networking or linking specific tiles together. Users may choose from over thirty-five tiles shown on the left-hand side of the screen. Gryphon Batch It! ships with thirty tiles that represent the most commonly used batching operations such as blur, sharpen, rotate, and set image size. Many of these tiles include customizable options. It is compatible with the most common graphic formats such as TIFF, PICT, and Adobe Photoshop and supports Photoshop filters and Apple's Easy Open Translators. ($199) Gryphon Software Corp., 7220 Trade St., Suite 120, San Diego, CA 92121. (619)536-8932. America Online: GryponSW.



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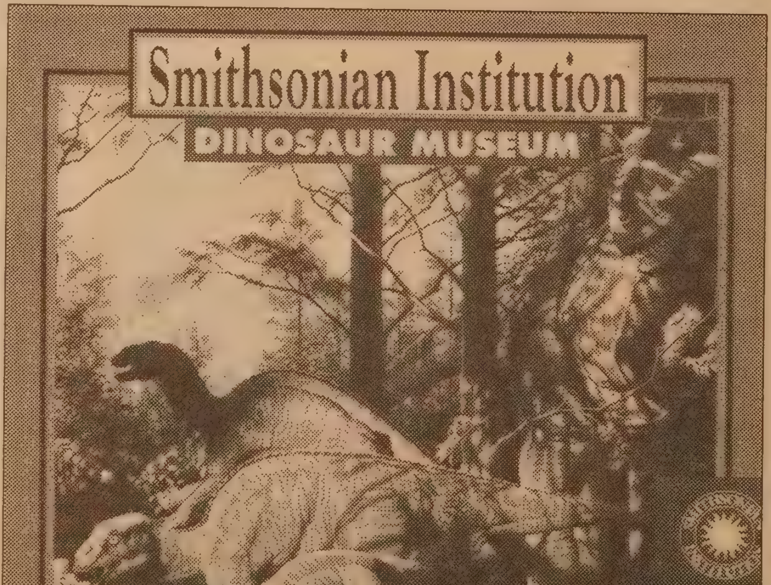

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pc software

CLICKART HOLIDAY SEASONINGS

ClickArt Holiday Seasonings is a one-season-only holiday ClickArt package from T/Maker. It contains a new set of never-before-seen holiday images that will only be available during the 1994 holiday season. There is a broad range of full-color, high-quality images for Thanksgiving, Halloween, Hanukkah, Christmas, New Year's, parties, and more. The PC version includes the new ClickArt ImageExporter, allowing users to easily convert images to any popular format including EPS, .WMF, .PCX, .CGM, .TIF, .AI, and PrintShop Deluxe, thereby optimizing these adaptable images for all hardware, software, and printers. The Macintosh version is also available. ($24.95) T/Maker Co., 1390 Villa St., Mountain View, CA 94041. (415)691-7762.

EVERGREEN NOTES FOR WINDOWS

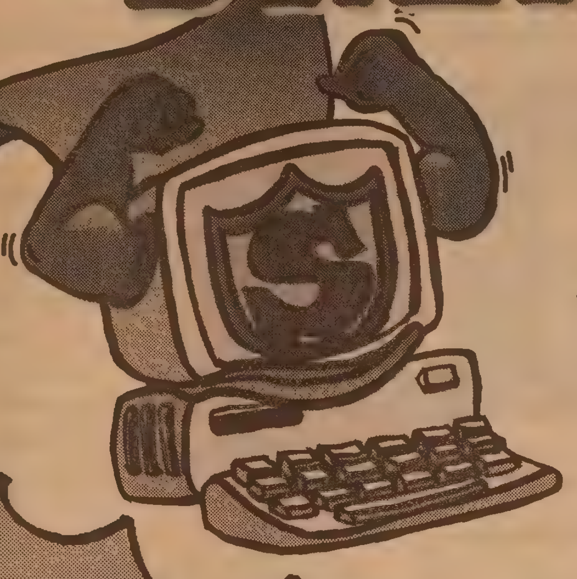
Evergreen Notes is a Windows-based annotation utility that allows users to attach messages to electronic documents and software programs in much the same way that stick-on notes are used with paper documents. Users can annotate documents and applications with written messages, sound messages, and sound files. Notes created using Evergreen Notes can be attached in any position on a document. This allows users to add notes to a specific location in a document that they have created as well as attaching notes to function keys, and other places in applications. The user has the option to have notes always displayed, displayed only on a specific page, or only when the cursor is in a specific location. Using patented concurrency technology, notes are attached without modifying the existing document or application. ($69.95) Evergreen International Technology, Inc., 930 W. 1st St., Unit #102, N. Vancouver, British Columbia, Canada V7P 3N4. 1-800-667-4340.

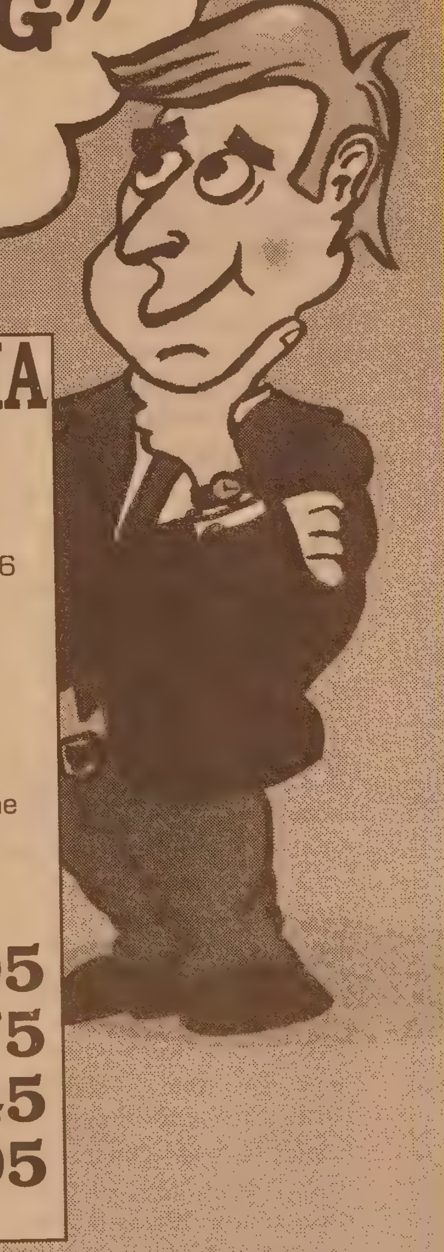
REFERENZING FOR WINDOWS

ReferenZing provides a dictionary, thesaurus, and encyclopedia all available in a single resource and accessible from the toolbar in popular word processing applications such as WordPerfect, Microsoft Word, and AmiPro. With the software's advanced search capabilities, users can instantly search all three resources in seconds to locate definitions, synonyms, or research new subjects. ReferenZing is based on the New American Library Desk Reference Set which includes three comprehensive reference tools: *The New American Handy College Webster Dictionary, Roget's College Thesaurus*, and *The New American Desk Encyclopedia*. ($49.95) Great Bear Technology, Inc., 1100 Moraga Way, Moraga, CA 94556. 1-800-795-4325.

QUEST MULTIMEDIA AUTHORING SYSTEM

Quest 5.0 for Windows is a fully integrated object-oriented authoring system designed to enhance the creation of interactive training and education applications. All multimedia tasks that are frequently used are available at the entry level. Developers work from WYSIWYG displays and floating toolbars to assemble graphics, text, audio, video, buttons, and animation, or to set up branching and interactions. Artists and content experts can work inside the actual frame at the Frame Level, viewing the screens as the end-user will see them. All functions of the system can be accessed without exiting to outside editors. A FastTracks feature lets developers add their own content to pre-built screen layouts, menus, templates,





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Product Spotlight *continued...*

borders, buttons, question/ answer frames, and interactions. A full-featured debugger traces objects, interactions, and C programs used within a title; and it provides detailed prescriptive feedback in message windows. ($3995, there are no runtime fees or royalties) Allen Communications, Inc., Lakeside Plaza II, 5225 Wiley Past Way, Salt Lake City, UT 84116. (801)537-7800.

DO-OVER!

Do-Over! is a Windows-based utility that enables the user to change the look of most elements of the Windows interface. Menu bars, boxes, dialog boxes, font sizes, and other elements can be easily modified. Do-Bar!, included as part of Do-Over!, is a powerful, multifunction bar that can be placed at the top, bottom, or either side of the screen, and allows for single-click opening of applications running in the background, a simple application launcher, and simplified control of running applications. ($59, introductory price of $29 through March 30, 1995, if ordered from publisher) Kansmen Corp., 558 Valley Way, Milpitas, CA 95035-4106. (408)263-9881.

AUTOMAP DESTINATION GOLF

Destination Golf adds a golf course database to Automap Road Atlas for Windows, giving travelers access to in-depth information on more than 11,600 golf courses in the US. The information is taken from the best-selling book *Golf Courses, the Complete Guide*, by J.C. White. Courses can be located by proximity to any location or within a particular distance to a route. The location of each course is shown on the map by a small symbol, and includes information such as address, phone number, yards, holes, and par. For the top two thousand courses there is also a detailed description from the Golf Pro. ($19.95, requires Automap Pro or Automap Road Atlas 3.0) Automap, Inc., 1309 114th Ave. SE, Suite 110, Bellevue, WA 90084-6999. 1-800-440-MAPS.

MAXIS GIFT MAKER FOR WINDOWS

Gift Maker lets you easily design personalized gifts and merchandise and order them directly from the factory. With Gift Maker you select the type of item you want to personalize, choose a design template from a library of hundreds of professionally designed color graphics, customize the design, and send your designs via mail or modem directly to Maxis's manufacturing partner, Artistic Greetings, in Elmira, NY, for production and fulfillment. There are more than forty different items ranging in price from $9.95 to $68.95. The items include T-shirts, visors, jackets, clocks, and more. Photos can be sent with the order to be added to the design. ($44.95) Maxis Corp., 2 Theatre Sq., Orinda, CA 94563-3346. (510)245-9700.

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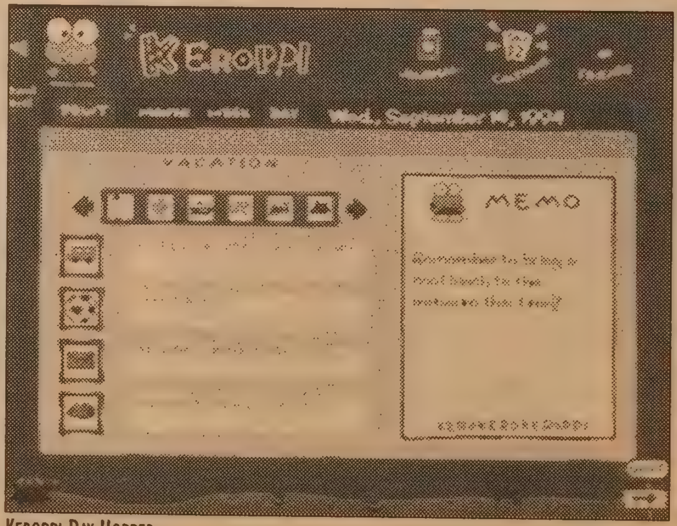

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INFO SELECT EXPRESS

Info Select Express, a low-cost PIM, offers an inexpensive and fast way to manage random information, such as notes, ideas, contracts, plans, lists, etc. It uses a stack of free-form information windows and a high-speed search engine for storing and retrieving information. Micro Logic offers an upgrade to Info Select, the comprehensive version. Info Select Express operates on any Windows 3.1-compatible PC. ($29.99) Micro Logic Corp., PO Box 70, Hackensack, NJ 07602. 1-800-342-5930.

MKS INTERNET ANYWHERE

MKS Internet Anywhere for Novell NetWare allows users on a NetWare LAN to read and send email and Usenet news over the Internet from their workstations on the network. The Internet news capabilities provided by MKS Internet Anywhere give the user a forum for discussion and information on nearly any subject directly from their Windows-based news reader. The network administrator sets up an Internet Communications Server (ICS) to interact with an Internet Access Provider to transfer Internet news and mail between the local area network and the Internet. The ICS performs all the transactions with the Internet, placing incoming mail and news on the NetWare server and sending any outgoing mail and news to the Internet. The NetWare server stores all of the news and mail, which users access from their workstations. ($1295, ten-user pack, which includes the Internet Communications Server) Mortice Kern Systems, Inc., 35 King St. N., Waterloo, Ontario, Canada N2J 2W9. (519)884-2251.

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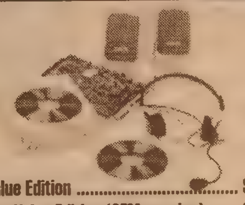

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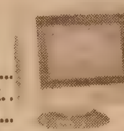

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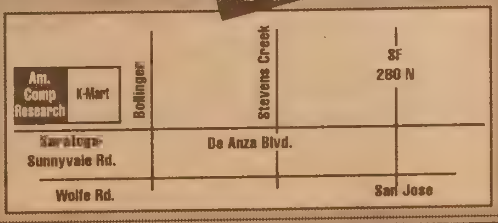
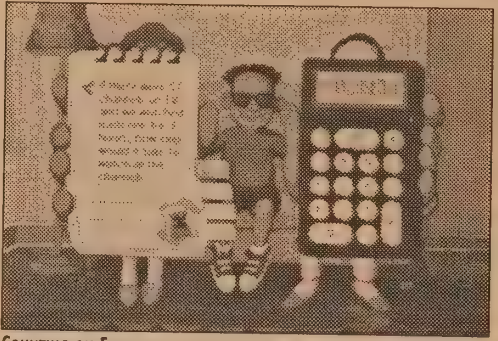


Quality ad by PRECISION GRAPHICS

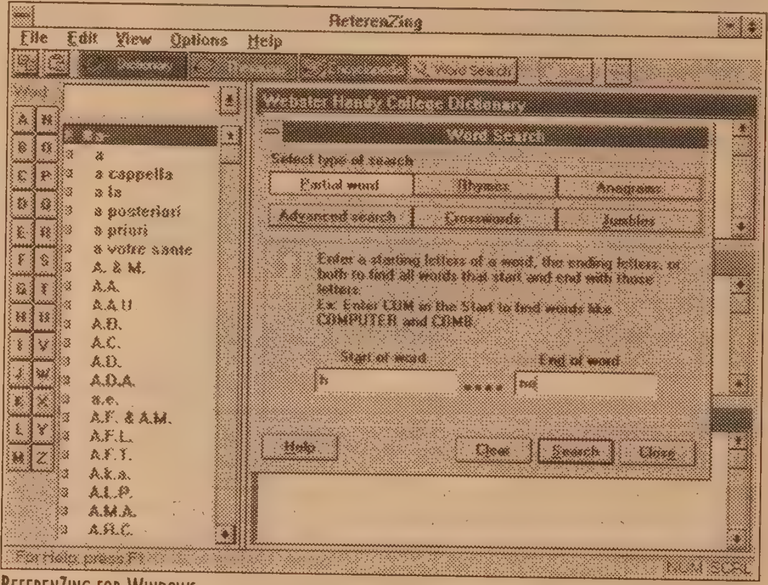
Product Spotlight *continued . . .*

PRONTO REMOTE 1.5

Pronto Remote 1.5 for Windows connects users to their UNIX host office system via modem. Mail is downloaded from the UNIX host by pressing a single button. Pronto Remote provides off-line email processing and synchronizes mail and folders between the PC and host during a communication session. With the addition of MIME (Multipurpose Internet Mail Extension) users can now attach text and binary to their email. The new MAPI (Messaging Application Programming Interface) feature will enable users to automatically make use of the Microsoft At Work protocol with no modifications. ($99) CommTouch Software, Inc., 1206 W. Hillsdale Blvd., Suite C, San Mateo, CA 94403. 1-800-63-TOUCH.



COUNTING ON FRANK

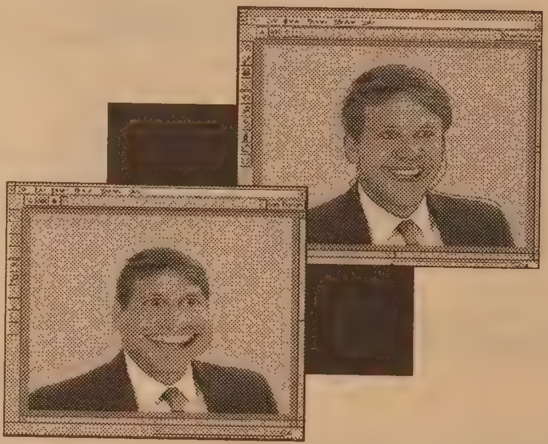


Enter a starting letters of a word, the ending letters, or both to find all words that start and end with those letters.
Ex. Enter COM in the Start to find words like COMPUTER and COMB.

REFERENZING FOR WINDOWS

MORPHSTUDIO FOR WINDOWS

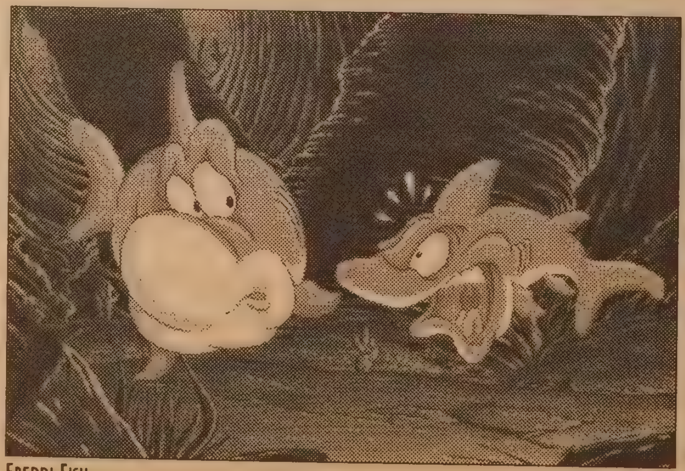
MorphStudio for Windows is an intuitive, full featured morphing and special effects creation tool. It is designed for business and home users who want to create exciting effects like they've seen in music videos and movies without a lot of effort. MorphStudio incudes special effects filters such as warping, whirlpool, wind, and more. Advanced options include the ability to append multiple morph and special effects together to create even more impressive videos. To help users become instantly productive, there are sample morph files with pre-set control points as well as sample images. ($59) Ulead Systems, Inc., 970 W. 190th St., Suite 520, Torrance, CA 90502. 1-800-858-5323.



ELASTIC REALITY

SUPER SHOW & TELLS FOR WINDOWS

Super Show & Tells v2.0 (SST) is a significant upgrade to the popular interactive, multimedia Windows software package. Using the intuitive metaphor of a slide carousel and VCR-like control buttons, SST allows the user to create a complete slide presentation, including motion and sound, without ever leaving the main editing screen. With twelve templates and several graph types included in the new graphing module, displaying pertinent information via graphs is now a reality. Another important new feature is auto-record mode. When it is selected, SST will automatically record everything the user does and add it to the Action Playlist. Bundled with SST is a copy of *Making Great Presentations on Your PC* handbook and the new *Secrets of Creating Super Show & Tells* book. ($199) Ask Me Multimedia Center, 7100 Northland Circle, Suite 401, Minneapolis, MN 55428. 1-800-ASK-ME11 or (612)531-0603.



FREDDI FISH

CHRISTMAS FOR WINDOWS

Christmas for Windows Release 3 offers festive decoration and interactive holiday fun for the Windows desktop for the Christmas season. You can choose from five festive screen savers—Forest Scene, Winter Village, Elf Magic, Ice Skater, and Happy New Year. A new Juke Box program allows you to select your favorite songs, as well as the order in which to play them. Replace your regular Windows icons with festive holiday icons that play a short clip of music while the software is loading. Five new icons and music clips have been added. Other features include two TrueType holiday fonts, improved wallpapers and stationeries, three games, and more. ($14.99) TDA Help!, 720 132nd St., S.W., Suite 202, Everett, WA 98204. (206)742-4145.

WINDOWASHER 1.0

WindoWasher is a new Windows utility that lets you find and remove all of the old and unnecessary files that are robbing you of valuable hard disk space. By monitoring and displaying file usage, it builds a complete picture of file usage on your PC, and gives you the tools to identify and selectively clear away unnecessary files. Using an approach called "Intelligent Data Compression," unused and seldom-used files can be deleted, or compressed for easy retrieval if needed. WindoWasher can also recognize your most frequently used files in a way that makes your hard drive work faster. WindoWasher includes several other helpful utilities: FileFlash, which displays the name of every file in the upper right corner of your screen as it is being accessed; NetFlash, for viewing file usage across a network; and FileSpy, which generates and saves a history of all file access. ($49.95) Micah Development

Product Spotlight *continued...*

Corp., 955 Massachusetts Ave., Suite 365, Cambridge, MA 02139. 1-800-653-1783.

ELASTIC EFFECTS

Elastic Effects cross-platform morphing and special effects software for film and video professionals is now available for the Windows platform. It offers a shape-to-shape interface which produces higher- quality results with less effort than more traditional point-to-point and mesh-based interfaces. Elastic Effects for Windows also includes warping, layering, and matting capabilities. A freehand drawing tool combines intuitive drawing with the precision of Bezier curves. It accepts digital images in a broad range of formats, including many produced by applications running on the PC, Silicon Graphics, Macintosh, UNIX, and Amiga platforms. Using Elastic Reality, Inc.'s Host Independent Imaging Protocol technology, the software frees users from dealing with application or platform incompatibilities by automatically performing any conversions required to open and edit images. ($495) Elastic Reality, Inc., 925 Stewart St., Madison, WI 53717. (603)273-6585.

HARDWARE

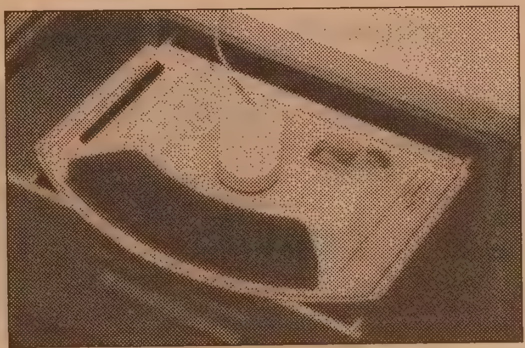
palmtops

SONY MAGIC LINK

Magic Link Personal Intelligent Communicator is designed to be a flexible, easy-to-use personal communications and information management device for mobile professionals. The portable, 1.2lb. Magic Link communicator is the first product based on General Magic's Magic Cap platform software and Telescript technology, and incorporates AT&T PersonalLink Services. It offers a combination of intelligent messaging capabilities that integrate email, fax, telephone, online services, and nationwide paging with personal information management software. The Magic Link communicator's serial port provides connectivity to accessories, personal computers, and other services. It comes with productivity and entertainment software installed in memory, including Intuit Pocket Quicken, PenCell spreadsheet, and Klondike and Mindbender games. ($995) Sony Electronics, Inc., Corporate Communications Dept., 1 Sony Dr., Park Ridge, NJ 07656. 1-800-55-MAGIC.

Ms. Winkle's Class

MorphStudio for Windows



Easy Reach Mouse Platform

Logitech Wingman Extreme

multimedia hardware

VIVACE PERSONAL ACCOMPANIST

Vivace uses a sophisticated computer algorithm that allows a Macintosh or Windows system to analyze instantaneously what the soloist is playing and provide prerecorded accompaniment that follows the soloist's tempo changes with no perceptible delay. Vivace is a combination of hardware, Intelligent Accompaniment software, and repertoire cartridges. The system includes an internal 32-voice, multitimbrel, sample-playing professional Proteus synthesizer, internal digital reverb with user-selectable settings, internal acoustic pitch-to-digital data converter, internal computer interface, twelve-note chromatic tuner, instrument microphone, foot pedal, cables, tutorial and user manual, and sample repertoire cartridge. ($2295, with limited introductory offers at $1995. Additional music cartridges start at $30 and include up to fifteen titles.) Coda Music Technology, 6210 Bury Dr., Eden Prairie, MN 55346-1718. 1-800-846-2066.

NEC MULTISPIN 2V DELUXE CD-ROM

The Multispin 2V Deluxe is an internal double-speed CD-ROM reader. It comes packaged with everything from an easy-to-understand installation kit to best-selling software titles, such as Microsoft's Encarta Multimedia Encyclopedia, Myst, and SimCity. NEC's Simple Start kit includes a video, user manual, poster-sized installation guide, and Windows-based installation software. To maximize sound for music CD fans, the package also comes with a 16-bit Creative Labs sound card and speakers. ($309) NEC Technologies, Inc., 1255 Michael Dr., Wood Dale, IL 60191. (708)860-9500.

PINNACLE MICRO RCD-1000

The new RCD-1000 recordable CD-ROM offers a double-speed write for faster recordings of CDs, and a built-in 1MB cache buffer which eliminates the thermal recalibration problems typically associated with recordable CD systems. This allows information to be written to the disc without any interruption. It comes with an easy-to-use software package that makes creat-

Continued on page 304

PACKAGE 1 SYSTEM

486 VLB Series

- ☑ Biostar Motherboard w/ CPU (256K Cache)
- ☑ 4Mb Ram installed
- ☑ IDE Controller VLB 2HD & 2FD w/ 2s, 1p, 1g
- ☑ Floppy Drive 1.44Mb
- ☑ Hard Disk 420Mb IDE 12ms
- ☑ Window Accelerator VLB w/1Mb
- ☑ 14" Super VGA Color Monitor (1024x768) .28 NI
- ☑ 101 Keys Enhanced Keyboard
- ☑ Mini Tower Case w/ 230 Watts Power Supply
- ☑ **Free 3 Buttons Serial Mouse**

Cyrix 486DX2-50	**$898**
AMD 486DX-40	**$938**
AMD 486DX2-66	**$988**
AMD 486DX2-80	**$1,058**
Intel 486DX-33	**$898**
Intel 486DX2-50	**$968**
Intel 486DX2-66	**$998**

PACKAGE 2 SYSTEM

486 VLB Series

- ☑ SIS-471 Motherboard w/ CPU (256K Cache)
- ☑ 4Mb Ram installed (72-pin)
- ☑ IDE Controller VLB 2HD & 2FD w/ 2s, 1p, 1g
- ☑ Floppy Drive 1.44Mb
- ☑ Hard Disk 420Mb IDE 12ms
- ☑ **Spider+ Window Accelerator VLB w/1Mb**
- ☑ **14" Acer 34T SVGA Color Monitor (1024x768) .28 NI**
- ☑ 101 Keys Enhanced Keyboard
- ☑ Mini Tower Case w/ 230 Watts Power Supply
- ☑ **Free 3 Buttons Serial Mouse**

Cyrix 486DX2-50	**$948**
AMD 486DX-40	**$988**
AMD 486DX2-66	**$1,038**
AMD 486DX2-80	**$1,118**
Intel 486DX-33	**$958**
Intel 486DX2-50	**$1,018**
Intel 486DX2-66	**$1,048**

PACKAGE 3 SYSTEM

486 VLB Series

- ☑ SIS-471Motherboard w/ CPU (256Kb Cache)
- ☑ 4Mb RAM Installed (72-pin)
- ☑ IDE Controller VLB 2HD & 2FD w/ 2s, 1p, 1g
- ☑ Floppy Drive 1.44Mb
- ☑ Hard Disk 420Mb IDE 12ms
- ☑ **Orchid Celsius VLB w/ 1Mb VRAM**
- ☑ **15" Acer 56L SVGA Color Monitor (1024x768) .28 NI**
- ☑ 101 Keys Enhanced Keyboard
- ☑ Mini Tower Case w/ 230 Watt Power Supply
- ☑ **Free 3 Buttons Serial Mouse**

Cyrix 486DX2-50	**$1,118**
AMD 486DX-40	**$1,158**
AMD 486DX2-66	**$1,208**
AMD 486DX2-80	**$1,278**
Intel 486DX-33	**$1,128**
Intel 486DX2-50	**$1,188**
Intel 486DX2-66	**$1,218**

PACKAGE 4 SYSTEM

Pentium VLB Series

- ☑ Opti Motherboard w/ CPU & Heatsink (256Kb Cache)
- ☑ 8Mb RAM Installed (72-pin)
- ☑ IDE Controller VLB 2HD & 2FD w/ 2s, 1p, 1g
- ☑ Floppy Drive 1.44Mb
- ☑ **Hard Disk 540Mb IDE 12ms**
- ☑ Windows Accelerator VLB w/ 1Mb
- ☑ 14" Super VGA Color Monitor (1024x768) .28 NI
- ☑ 101 Keys Enhanced Keyboard
- ☑ Mini Tower Case w/ 230 Watt Power Supply
- ☑ **Free 3 Buttons Serial Mouse**

pentium PROCESSOR

P5-60MHz	**$1,508**
P5-66MHz	**$1,618**
P5-90MHz	**$1,798**

PACKAGE 5 SYSTEM

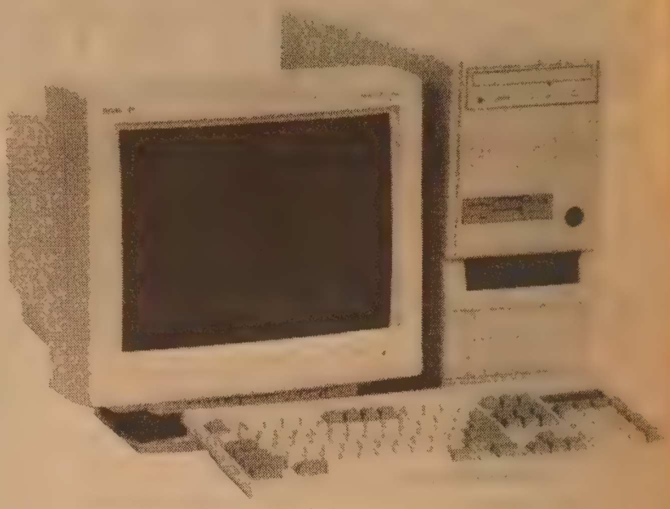
Pentium PCI Series

- ☑ Intel Motherboard w/ CPU & Heatsink (256Kb Cache)
- ☑ 8Mb RAM Installed (72-pin)
- ☑ IDE Controller PCI 2HD & 2FD w/ 2s, 1p, 1g
- ☑ Floppy Drive 1.44Mb
- ☑ **Hard Disk 540Mb IDE 12ms**
- ☑ **Windows Accelerator PCI w/ 1Mb (S3-864)**
- ☑ **15" Acer 56L SVGA Color Monitor (1024x768) .28 NI**
- ☑ Keytronic 101 Keys Enhanced Keyboard
- ☑ Medium Tower Case w/ 230 Watt Power Supply
- ☑ **Free Microsoft Serial Mouse (Ergomonic)**

intel. pentium PROCESSOR

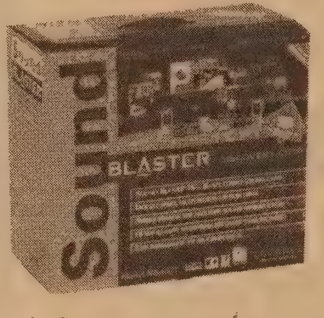
Intel P5-60MHz	**$1,748**
Intel P5-66MHz	**$1,848**
Intel P5-90MHz	**$1,998**

486 MULTIMEDIA SYSTEM



- ✱ SIS-471 Motherboard w/ CPU (ZIF socket)
- ✱ 256K Cache
- ✱ 4Mb Ram installed (72-pin)
- ✱ IDE Controller VLB 2HD & 2FD w/ 2s, 1p, 1g
- ✱ Floppy Drive 1.44Mb
- ✱ Hard Disk 420Mb IDE 12ms
- ✱ Sigma Design Concorde VLB w/ 2Mb (ET4000-W32i)
- ✱ 15" Acer 56L SVGA Color Monitor (1024x768) .28 NI
- ✱ 101 Keys Enhanced Keyboard
- ✱ Super Mini Tower Case w/ 230 Watts P.S
- ✱ Microsoft Serial Mouse
- ✱ Discovery CD-16 Multimedia Kit

CREATIVE
CREATIVE LABS, INC.



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Product Spotlight

continued from 301

ing a CD-ROM painless. The RCD-1000 can be used to create unique data, audio, video, or multimedia titles. Each disc, which holds 680MB of information or 74 minutes of audio, can be used as a medium for data duplication or for low-cost distribution. ($2995 for Macintosh; $3195, for Windows-based PC) Pinnacle Micro, Inc., 19 Technology, Irvine, CA 92718. 1-800-553-0707.

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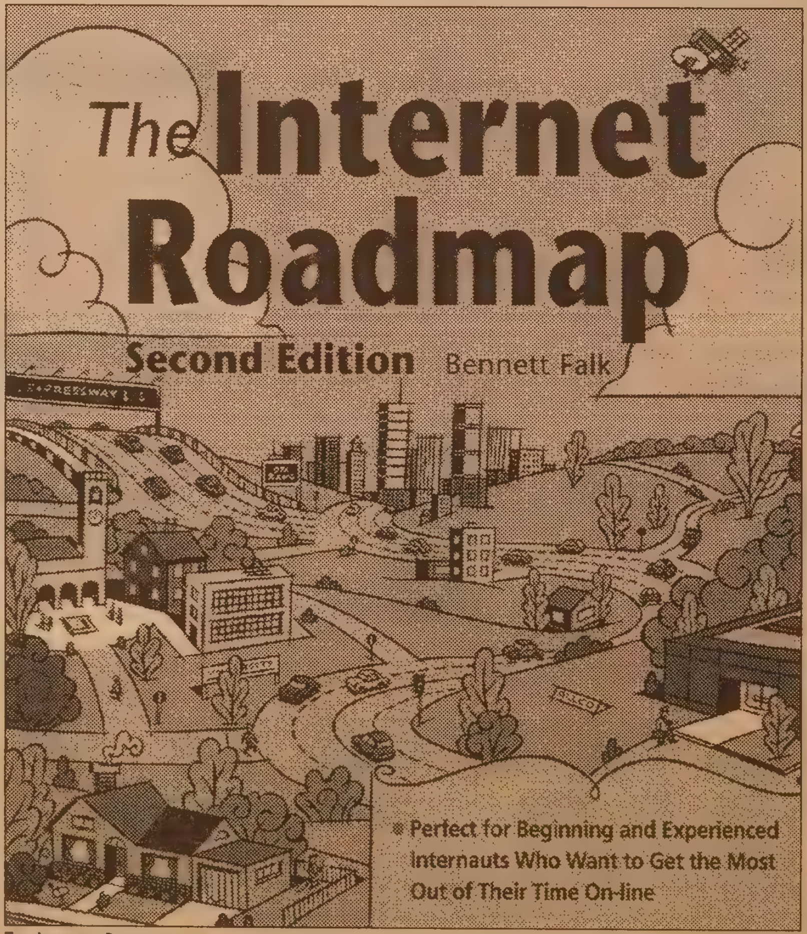
The CyberEye Model CEP-100 is a head-mounted display (HMD) designed for public theater applications, such as museum displays, tradeshow promotions, attended arcade games, and information kiosks. It features several advances over the original CyberEye, including integrated high-performance audio speakers and elimination of all user-specific adjustments such as focus and interpupillary distance. This is made possible by a unique optical system, which provides compatibility with a wide range of human eye separations and with all eyeglasses. It also includes a top visor/open bottom design to block outside light while eliminating the risk of injury created by conventional HMDs when users cannot see their own feet. ($1995 with a single video input) General Reality Co., 170 S. Morrison Ave., San Jose, CA 95126. (408)289-8340.

PIXELOCK

Pixelock turns a desktop PC into a multimedia video device. This new 32-bit genlock overlay card allows users to mix 24-bit VGA graphics with a live video source, and then output it all to a television or record it to a videotape. It can also provide alpha channel support for special effects editing. Pixelock is a full-size, 16-bit ISA board designed specifically to complement PixelMaker, which is a 32-bit VGA Windows graphics acceleration card. These two products offer an inexpensive way to capture and convert VGA data to TV output and mix special effects. PixelMaker is sold separately or bundled with Pixelock as a configuration for desktop video production. (PixelMaker, $299; Pixelock, $499) Power Pixel Technologies, Inc., 2312 Walsh Ave., Suite A, Santa Clara, CA 95051. (408)748-0246.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Specifically designed for high-quality output, the OptiVideo Decoder decompresses MPEG bitstreams for fully synchronized audio and video playback using a single ISA slot in a PC. Video outputs provide direct connection to NTSC or PAL monitors using the composite or S-Video connectors. When used with the OptiVideo Encoder, the Decoder allows the effects of MPEG compression to be previewed in real time. Control software provides full transport control (stop, play, pause, scan, step), with the rapid response possible with digital technology, to effectively replace analog tape decks and laserdisks. The OptiVideo Decoder architecture is based on optimized MPEG-1 decoders—the C-Cube CL 450 for video; and the Texas Instruments AV 110 for audio. The architecture is scalable and allows multiple Decoders to be installed in a single system for multichannel applications. OptiVision, Inc., 1477 Drew Ave., Suite 102, Davis, CA 95616. 1-800-562-8934.

SOUND BLASTER DIGITAL SCHOOLHOUSE

Targeted at home PC users, Sound Blaster Digital Schoolhouse is an educational multimedia kit that includes an extensive assortment of software titles. The Digital Schoolhouse hardware includes Creative's Sound Blaster 16 audio card, a double- speed CD-ROM drive, and stereo speakers. In addition to six utilities specifically designed for Sound Blaster sound cards, the package includes fourteen educational software titles for children three years and older. Featuring entertaining educational titles, from such publishers as Davidson and Associates, Knowledge Adventure, Electronic Arts, Grolier Electronic Publishing, and others, parents will be encouraged to concentrate on improving their children's reading, writing, and math skills. ($399.95) Creative Labs, Inc., 1901 McCarthy Blvd., Milpitas, CA 95035. (408)428-6600.

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WACOM ARTPAD

The Wacom ArtPad ADB for Macintosh offers an affordable entry-level graphics tablet for artists as well as computer users seeking a mouse alternative. It includes the UltraPen, a wireless and battery-free pressure-sensitive electronic pen. With it, users can sketch, draw, and sign their names with smooth, natural hand motions and varying pressures that are not possible with a mouse. The ADB tablet connects directly to the Apple Desktop Bus and thus allows users to keep their serial port open for modem or other use. Because the unit draws its power from the computer, no external AC adapter is required, making the ArtPad ADB ideal for presentations and for use with mobile computers. Under the bundled name ArtPak, the ArtPad is also available bundled with Fractal Design's Dabbler, an easy-to-use presser-sensitive draw and paint application. ($199; ArtPak, $239) Wacom Technology Corp., 501 SE Columbia Shores Blvd., #300, Vancouver, WA 98661. (206)750-8885.

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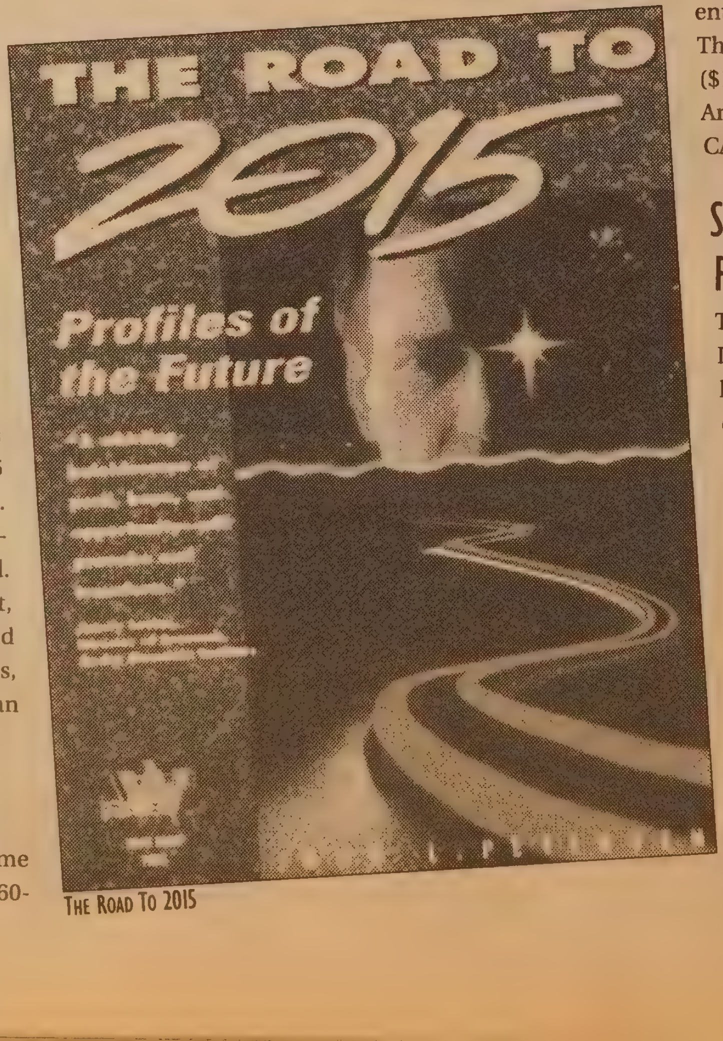

THE ROAD TO 2015

amiga hardware

THE CD-1401 DESKTOP VIDEO MONITOR

The CD-1401 Desktop Video Monitor, from CD Solutions, is a 14" multiscan monitor that supports NTSC, PAL, and VGA video modes. The CD-1401 is ideal for the Amiga and VideoToaster, as well as PC and Macintosh systems. This .28mm dot pitch monitor automatically supports synchronization frequencies: horizontal 15 to 35kHz and vertical 50 to 90kHz. Resolutions up to 800 x 600 and edge-to-edge display capability are also featured. Manual control knobs include contrast, brightness, horizontal phase and size, and vertical center and size. ($549) CD Solutions, 2551 San Ramon Valley Blvd., Suite 214, San Ramon, CA 94583. (510)820-5400.

VLAB MOTION

MacroSystem's VLab Motion card, a real-time JPEG board for the Amiga, is capable of 60-fields-per-second video capture and playback. It includes built-in genlock and chroma keying hardware. Y/C and composite outputs are standard; YUV or RGB component output is optional. It integrates with the Toccata 16-bit sound card and Retina 24-bit graphics card. It can also output to NewTek's VideoToaster. Nonlinear editing software is included. It requires an Amiga 2000 (accelerated), 3000, or 4000 with a large, fast SCSI hard drive (not dedicated). ($1750) NoahJi's, 3591 Nyland Way, Lafayette, CO 80026. (303)499-1975.

printers

FUJITSU DL6400

The DL6400 is a high-end impact printer designed for businesses that require large-volume printer jobs, including forms, accounting reports, and database printing. The wide-carriage printer, which operates at a fast 504cps in draft mode, has enhanced paper handling for forms printing and a straight paper path for printing labels. An optional rear tractor offers the ability to have two different continuous forms loaded simultaneously. The DL6400 can process eight-part forms. ($1595) Fujitsu Computer Products of America, Inc., 2904 Orchard Pkwy., San Jose, CA 95134. (408)432-6333.

SII SMART LABEL PRINTER PRO

The Smart Label Printer Pro from Seiko Instruments produces one-at-a-time labels for letters and file folders, floppy disks, video and tape cassettes, and anything else that needs identifying. It features fast print speeds, multiple-sized labels, and laser-quality output on standard, clear, and colored labels. Available for both PC and Macintosh computers. ($250) Seiko Instruments USA, Inc., 1330 Ringwood Ct., San Jose, CA 95131. (408)922-5900.

APPLE COLOR STYLEWRITER 2400

The Color StyleWriter 2400, a color inkjet printer for Macintosh comput-

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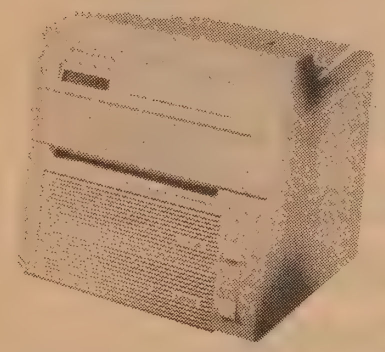

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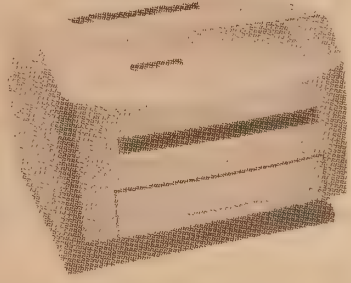

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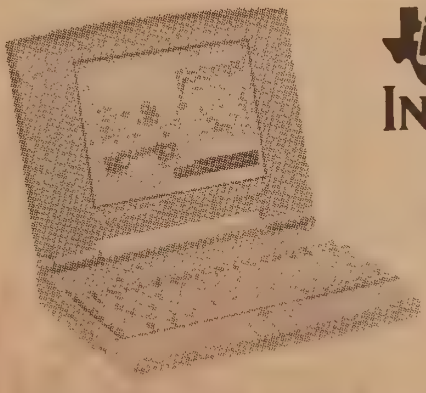

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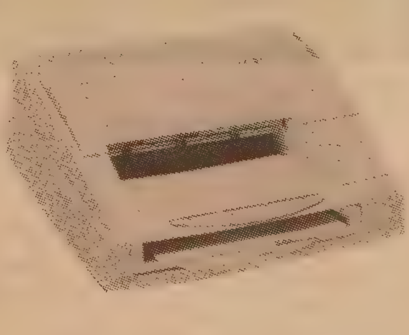

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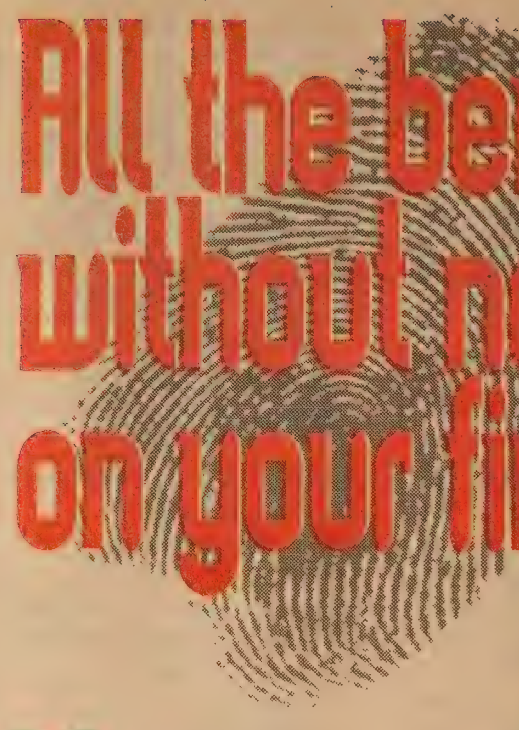

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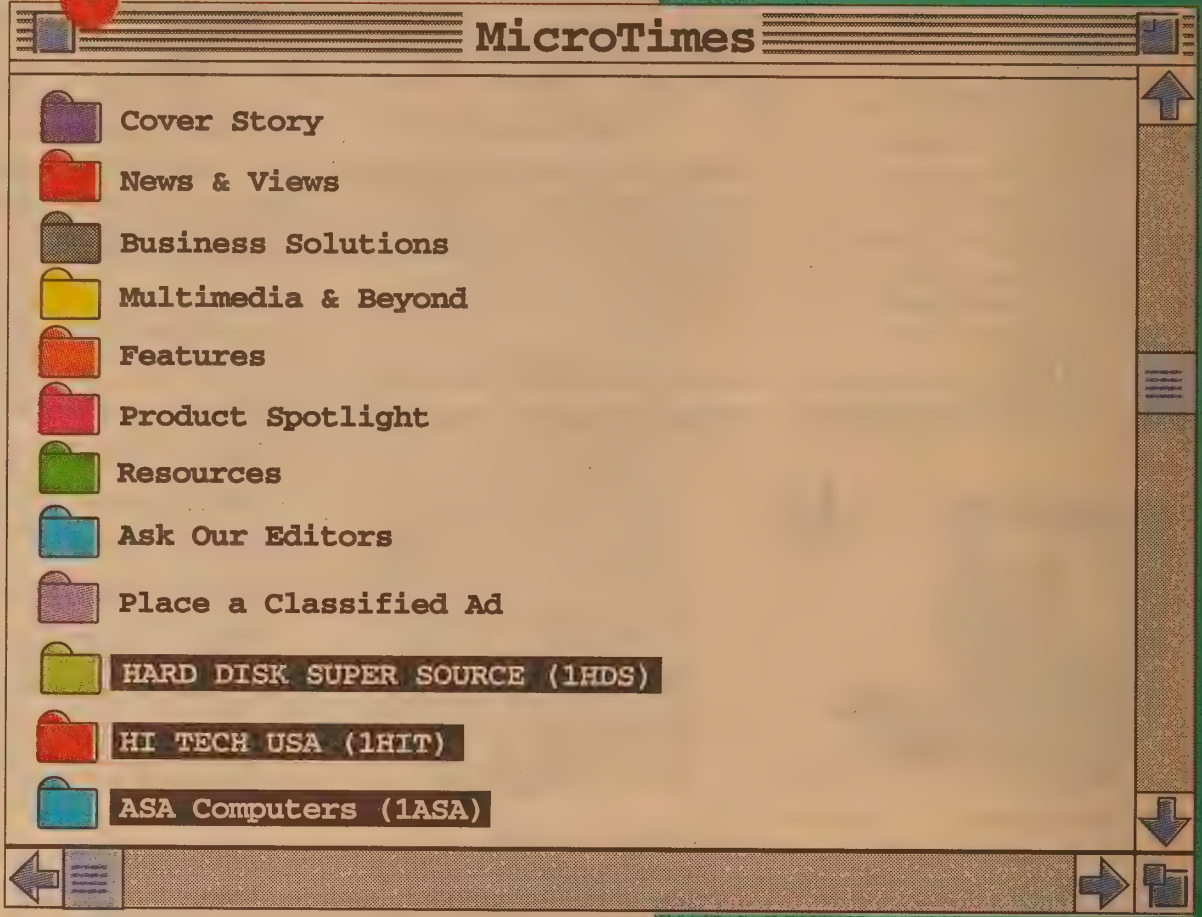
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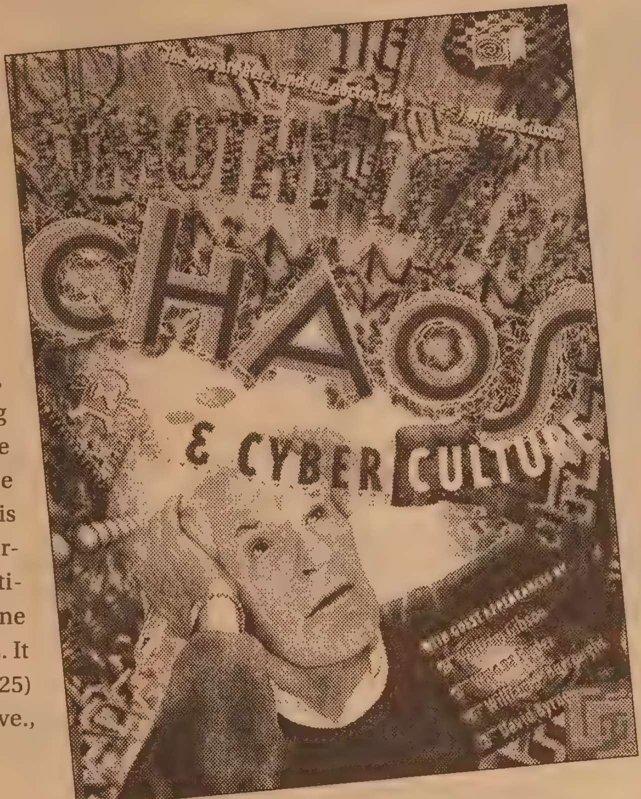

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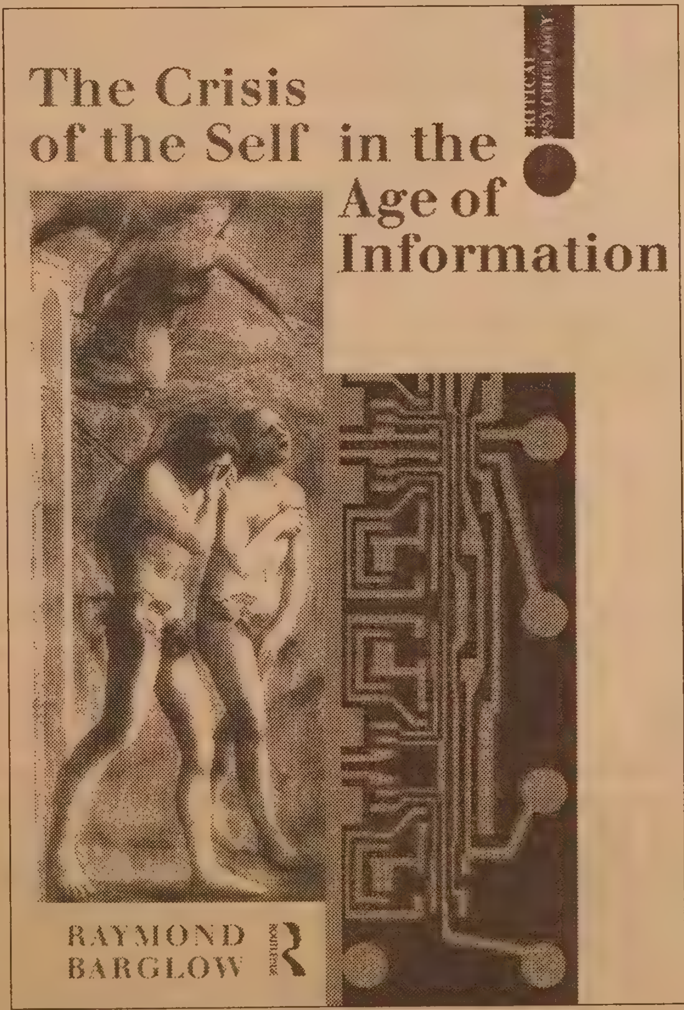
In addition to having traditional timekeeping functions, the Timex Data Link watch allows users to download scheduling information from a Windows PC to the watch through Timex-developed wireless technology. It interfaces with personal computers via a built-in watch sensor, and Microsoft- and Timex-developed software. The watch stores your choice of appointments, phone numbers, anniversaries, alarms, time settings, and to do lists. It stores up to seventy entries, and a fuel gauge icon shows how much information has been selected to be sent. Because the downloading process is quick and easy, you have the luxury of downloading only the information you really need for that day or week. ($130) Timex Corp., Park Road Extension, PO Box 310, Middlebury, CT 06762. 1-800-367-8463.

LOGITECH WINGMAN EXTREME

The WingMan Extreme is a new ultra-realistic, super-stylish analog joystick for PC flight-simulation programs. Ergonomically designed for maximum palm, thumb, and wrist comfort, the joystick includes rubberized buttons and a much heavier base for greater stability and control over advanced flight maneuvers. The WingMan Extreme also features a four-way view switch to see any angle from the cockpit; three additional thumb buttons for weapons control, target switching, and special weapons; and trim controls in the base for fine tuning. ($69.95) Logitech Inc., 6505 Kaiser Dr., Fremont, CA 94555. 1-800-231-7717.



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SlapSticks are high-gloss, self-adhesive, die-cut bumper stickers that feed through all dry-toner color and black-and-white laser printers and most copiers. They come in two sizes—2.5" x 11" and 3.5" x 11"—on 8.5" x 11" sheets, perforated between each bumper sticker for easy separation. SlapSticks are also available with two types of adhesive backing: one that is removable by a solvent, available from Williams & Macias, and the other that is easily washed off with water. ($19.95) Williams & Macias, Inc., 1-800-310-0890.

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The Easy Reach Mouse Platform offers a cost-effective ergonomic device for mouse users. Designed to fit on top of a standard box drawer, the Platform positions the mouse next to the user's side. This eliminates the uncomfortable and unsupported reach that can cause wrist, arm, and shoulder muscles to become sore or numb. It features a soft, removable wrist rest that places the hand about 1/2" above the base of the mouse. It supports the hand in the neutral position recommended by most ergonomic experts. A removable, textured Lexan sheet provides an excellent surface for mouse movements, and lifts off to store messages, notes, and photographs underneath its transparent surface. ($19.95) Ring King Visibles, Inc., 2210 Second Ave., PO Box 599, Muscatine, IA 52761-0599. (319)263-8144.

GRIP-IT STRIPS FOR PORTABLES

Grip-It Strips are a set of specially designed slip-resistant textured strips with self-adhesive backing that attach to

Continued on page 312

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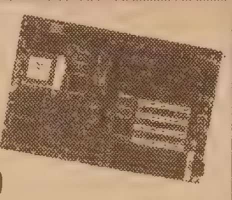
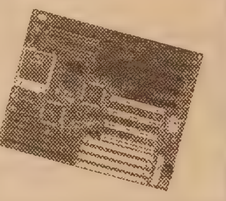


Model: 586VIP
Made in the USA

$275
(w/256K w/o CPU)

INTRODUCTION of NEW!
LYNX 486 GREEN VIP BOARD



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Introducing the LYNX 486/586 VESA/PCI Local BUS Main Board
(Motherboards Designed and Manufactured in The USA)

	486G1 VLB	486G2 VLB	486 G3 (GREEN) VLB	486 VIP (GREEN) PCI/VLB NEW!	586 VIP P54C PCI/VLB NEW!
Chipset	Contaq	Contaq	Contaq	Contaq	OPTi 82C546, 547
BIOS	AMI	AMI (Flash BIOS Optional)	AMI (Flash BIOS Optional)	AWARD (Flash BIOS Optional)	AMI (Flash BIOS Optional)
Energy Saving	NO	NO	YES	YES	YES
Processors (SX/DX/DX2)	All Intel/AMD Cyrix (M7 series)	All Intel/AMD Cyrix (M7 series)	All Intel/AMD Cyrix (M7 series)	All Intel/AMD Cyrix (M7 series) **INTEL DX4-100** AMD DX2-80	**INTEL Pentium** **P5-90MHz** **P5-100MHz**
Max. Memory	128MB (30 pins)	128MB (30 pins)	128MB (30 pins)	128MB (**72 pins**)	128MB (**72 pins**)
Max. Cache	256K	256K	1MB	1MB	512K
Expansion Slots	2 VESA BUS 6-16 bits ISA BUS	2 VESA BUS 6-16 bits ISA BUS	2 VESA BUS 5-16 bits ISA BUS	3 PCI BUS 1 PCI/ISA BUS 4-16 bits ISA BUS 2 VESA BUS	4 PCI BUS 2 VESA BUS 5-16 bits ISA BUS
CPU Socket	Standard	Ziff (overdrive)	Ziff (overdrive)	Ziff (overdrive)	Ziff (overdrive)
Bus Master	2 Slots	2 Slots	3 Slots	6 Slots	4 Slots
Dimension	8.7" X11"	8.7" X11"	8.7" X11"	8.7" X11"	8.7" X13"
Sale Price	**$118** (w/256K)	**$128** (w/256K)	**$138** (w/256K)	**$165** (w/256K)	**$275** (w/256K)

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$1229

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- Local Bus Graphics w/1MB
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- 14.4K Fax Modem
- 3.5" Diskette Drive Teac
- 14" Color SVGA Monitor NI
- Mid Case w/PS
- 101-Key Keyboard & Mouse
- MS-DOS 6.22 & WIN 3.11

$1689

4DX4-100 FAMILY PC
- DX4-100 MHz CPU
- LYNX Galaxy w/256K
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- PCI Enhanced IDE Interface
- Local Bus Graphics w/2MB
- Double Speed CD-ROM, 16 Bit Sound Card & Speakers
- 14.4K Fax Modem
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- 15" Color CrystalScan Monitor
- Mid Case w/PS
- 101-Key Keyboard & Mouse
- MS-DOS 6.22 & WIN 3.11

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- 60MHz Pentium CPU
- LYNX Galaxy w/256K
- 8MB RAM
- 730 13ms IDE Hard Drive
- PCI Enhanced IDE Interface
- PCI Local Bus Graphics w/1MB
- Double Speed CD-ROM, 16 Bit Sound Card & Speakers
- 14.4K Fax Modem
- 3.5" Diskette Drive Teac
- 15" Color SVGA Monitor NI
- Mid Case w/PS
- 101 Key Keyboard & Mouse
- MS-DOS 6.22 & WIN 3.11

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P5-90 FAMILY PC
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- LYNX Galaxy w/256K
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- Double Speed CD-ROM
- 16 Bit Sound Card & Altec Speakers
- 14.4K Fax Modem
- 3.5" Diskette Drive Teac
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- Local Bus Graphics w/1MB
- Double Speed CD-ROM
- 3.5" Diskette Drive Teac
- 14" Color SVGA Monitor NI
- Mini Case w/PS
- 101-Key Keyboard & Mouse
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4SX-33	$1085
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- PCI Local Bus Graphics w/1MB
- Double Speed CD-ROM
- 3.5" Diskette Drive Teac
- 15" Color SVGA Monitor NI
- Mid Case w/PS
- 101-Key Keyboard & Mouse
- MS-DOS 6.22 & WIN 3.11

$1749

P5-90 XL
- 90MHz Pentium CPU
- LYNX Galaxy w/256K
- 16MB RAM
- 1GB SCSI IDE Hard Drive
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- ATI Mach 64 w/2MB VRAM
- Double Speed CD-ROM
- 16 Bit Wavetable Sound Card & Speakers
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- 17" Color SVGA Monitor NI
- Mid Case w/PS
- 101 Key Keyboard & Mouse
- MS-DOS 6.22 & WIN 3.11

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P5-60
- 60MHz Pentium CPU
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- 8MB RAM
- 730MB 13ms IDE Hard Drive
- PCI Enhanced IDE Interface
- PCI Local Bus Graphics w/1MB
- Double Speed CD-ROM
- 3.5" Diskette Drive Teac
- 15" Color SVGA Monitor NI
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- 101-Key Keyboard & Mouse
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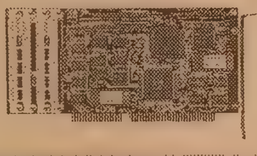
PC MAGAZINE
EDITOR'S CHOICE
April 14 1992



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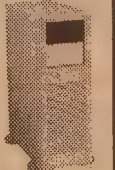

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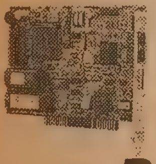

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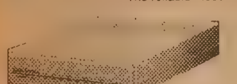

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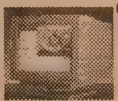

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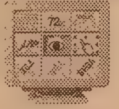

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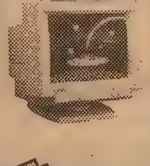

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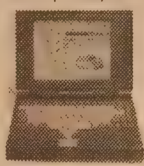

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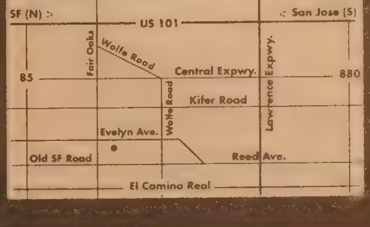

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books

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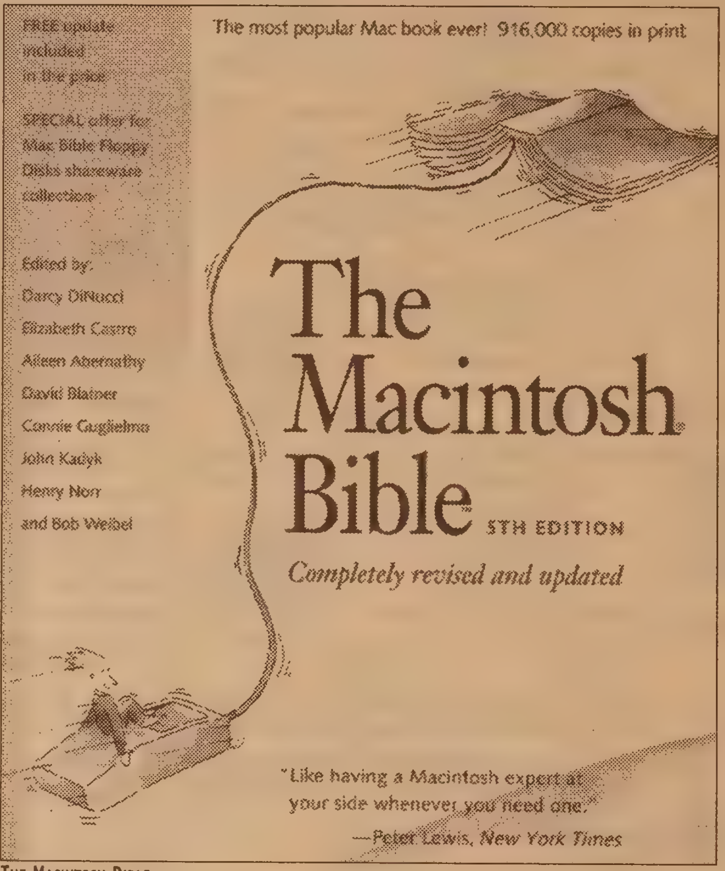
Packed with more than 120 computer-generated flics, this book/CD-ROM package transforms your Windows multimedia computer into a virtual cineplex. The included CD offers the reader the full experience of interactivity. Once inside the virtual lobby of the cineplex, readers take a guided tour of the six theaters or explore on their own, using mouse clicks to skip venues, move to different flics, or fine tune movie playing options. The accompanying book describes the technology used to create each animation and provides information on the contributing animation authors, including their ideas on trends in computer animation art and technology. Thorough explanations of key elements shed light on the mysteries of computer animation. The CD's searchable, scrollable glossary offers definitions and movie descriptions of 3-D modeling and animation concepts. ($32.95) Waite Group Press, 200 Tamal Plaza, Corte Madera, CA 94925. 1-800-368-9369.

THE INTERNET ROADMAP, SECOND EDITION

Written primarily for people who connect to the Internet by phone, the second edition of *The Internet Roadmap* introduces the reader to the basics of working with the Internet. The book is divided into three parts and five appendices. Part I looks at the Internet: the physical network, the protocols, and network applications. Part II discusses the Internet's most basic tools: ftp, telnet, and electronic mail. Part III explores more recently developed Internet tools, such as gopher, the World Wide Web, and Usenet. Throughout the book, author Bennet Falk introduces some key information resources as starting points for exploring the Net. ($14.99) Sybex, Inc., 2021 Challenger Dr., Alameda, CA 94501. 1-800-227-2346.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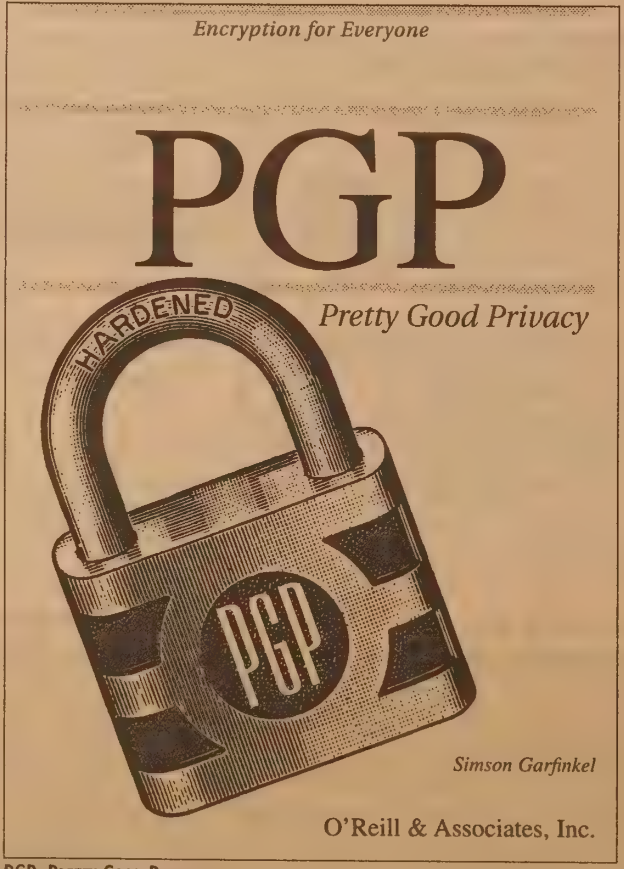
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PGP: Pretty Good Privacy, by Simson Garfinkel, offers the first guide to this free, widely available, and highly effective encryption program. Using state-of-the-art public key cryptography, PGP offers a popular alternative to US government initiatives like the Clipper Chip. Unlike Clipper, PGP does not allow the government or any other outside agency access to your secret keys. Part I of the book describes how to use PGP: protecting files and email, creating and using keys, signing messages, certifying and distributing keys, and using key servers. Part II provides background on cryptography, battles against public key patents and US government export restrictions, and other aspects of the ongoing public debates about privacy and free speech. *PGP: Pretty Good Privacy* explains how to get PGP from publicly available sources and how to install it on various platforms. ($19.95) O'Reilly & Associates, Inc., 103 Morris St., Suite A, Sebastopol, CA 95472. 1-800-998-9938.

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Ray Tracing for the Macintosh CD book/CD-ROM package is a hands-on book with accompanying software that shows you how to generate stunning photo-realistic graphic images and QuickTime movies. The enclosed CD includes Persistence of Vision Ray Tracer (POV-Ray) 2.2 software, reference database, and source code. POV-Ray is a world-class ray trac-

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BUILD YOUR OWN PENTIUM PROCESSOR PC

In *Build Your Own Pentium Processor PC,* Aubrey Pilgrim explains how to construct an IBM-compatible Pentium computer out of mail-order parts and peripherals. After an overview of the Pentium processor and its capabilities, Pilgrim describes in step-by-step, illustrated detail how to put together all the necessary components—motherboards, memory chips, monitors, floppy and hard drives, and more. Readers will learn how and where to find the best components and peripherals at the lowest prices, and which software packages will best suit a variety of needs. ($19.95) Wincrest/McGraw-Hill, Blue Ridge Summit, PA 17294-0850. 1-800-233-1128.

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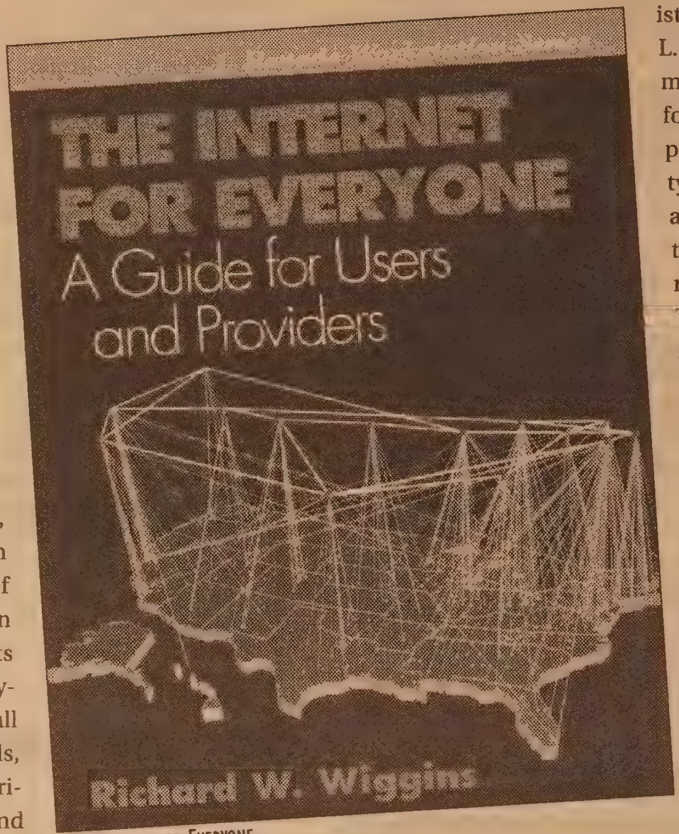
Chaos & Cyber Culture conveys Timothy Leary's vision of the emergence of a new humanism with an emphasis on questioning authority, independent thinking, individual creativity, and the empowerment of computers. He explores the relationship between the philosophy of Chaos and the future of technology. As Leary's cyberpunk manifesto, the book brings together the author's futuristic writings, lively interviews, and conversations with a variety of writers and celebrities, including William Gibson, Winona Ryder, William S. Burroughs, and David Byrne. ($19.95) Ronin Publishing, Inc., PO Box 1035, Berkeley, CA 94701. (510)548-2124.



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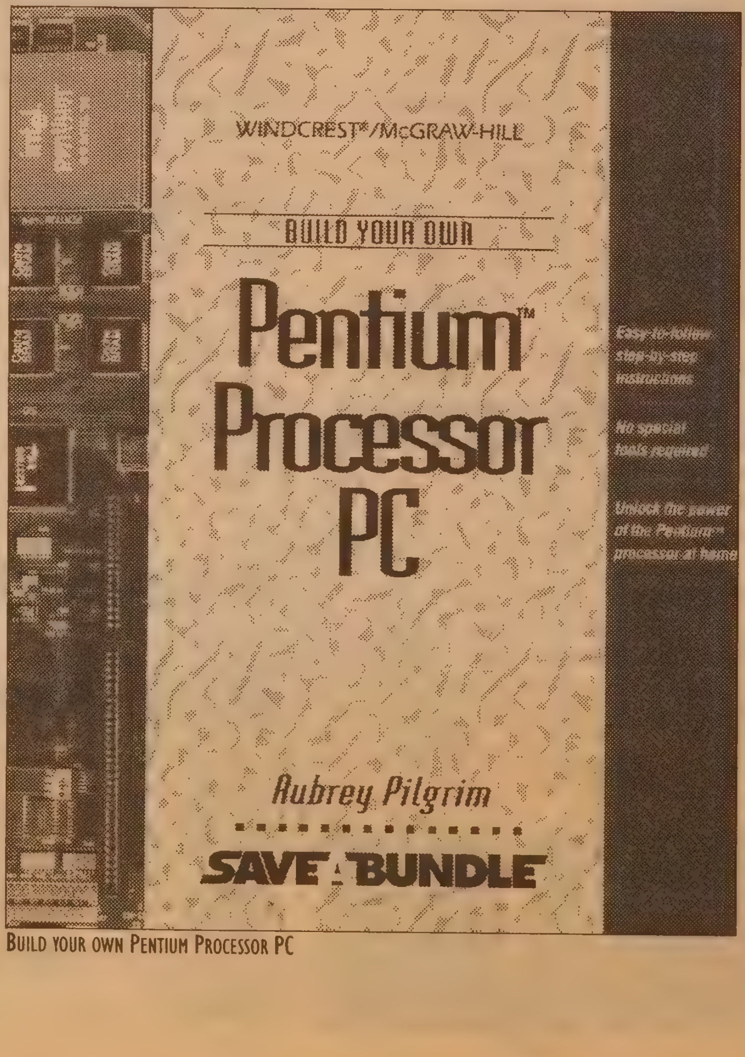
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THE INTERNET FOR EVERYONE

The Internet for Everyone: A Guide for Users and Providers explains how to connect to the Internet, sort out the gems of available and useful information from the trivial, publish information on the Net, and communicate with people around the world. Author Richard Wiggins guides new and experienced users through the use of the Internet resources Gopher, FTP, World Wide Web, WAIS, Veronica, and telnet. Users will discover how to gain access to libraries, databases, newsgroups, games, and people. In addition, chapters discuss security and privacy issues, selecting and installing the latest server software, and the future of the Internet. ($29.95) McGraw-Hill, Inc., 1221 Avenue of the Americas, New York, NY 10020. 1-800-822-8158.

PLANET INTERNET

Planet Internet offers an entertainment guide to the Internet. While it touches on the Net's libraries and museums, it focuses more on its nightclubs, curiosity shops, and pubs. After providing an overview of how the Internet is structured and how to interact with it, author Steve Rimmer discusses such unusual and

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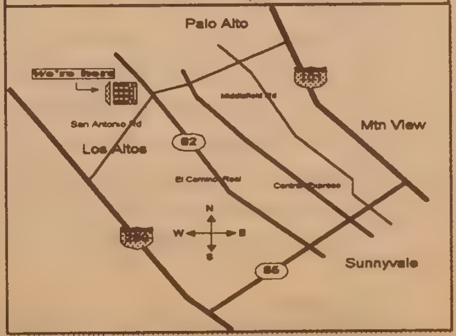

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irreverent topics as cult TV, online dating, pagan magick and witchcraft, underground netzines, cyberpunks, and more. ($24.95) McGraw-Hill, Inc., Professional Book Group, 13311 Monterey Ave., Blue Ridge Summit, PA 17294-0850. 1-800-822-8158.

JOBSHIFT

In *JobShift: How to Prosper in a Workplace Without Jobs,* William Bridges argues that our present information-based economy demands more flexible employment models than a manufacturing-based economy. He shows that jobs in the traditional sense—daily 9-to-5 duties, base salary with benefits, and defined career paths—are headed for extinction, and proposes a futuristic career blueprint to carry workers into the twenty-first century. In this new work environment, each of us will determine what expertise we want to offer to employers, and take the responsibility to improve and expand our specialties. Also, workers will market themselves to employers and manage themselves as independent consultants. ($22) Addison-Wesley Publishing Co., One Jacob Way, Reading, MA 01867.

CRISIS OF THE SELF IN THE AGE OF INFORMATION

In *The Crisis of the Self in the Age of Information: Computers, Dolphins and Dreams,* Raymond Barglow shows how contemporary technological environments furnish the unconscious with the internal objects that hark back to a time in our lives prior to personal boundary formation and identity. The consequence is that our technological involvements help to disrupt and dismantle the ideal of the unified and sovereign self that in the past technology fostered. Throughout the book Barglow interweaves critical theory and psychoanalysis with an examination of artistic representations, media imagery, and dreams to explore the conflictual dynamics of contemporary self-formation and self- representation. ($18.95) Routledge, 29 W. 35th St., New York, NY 10001.

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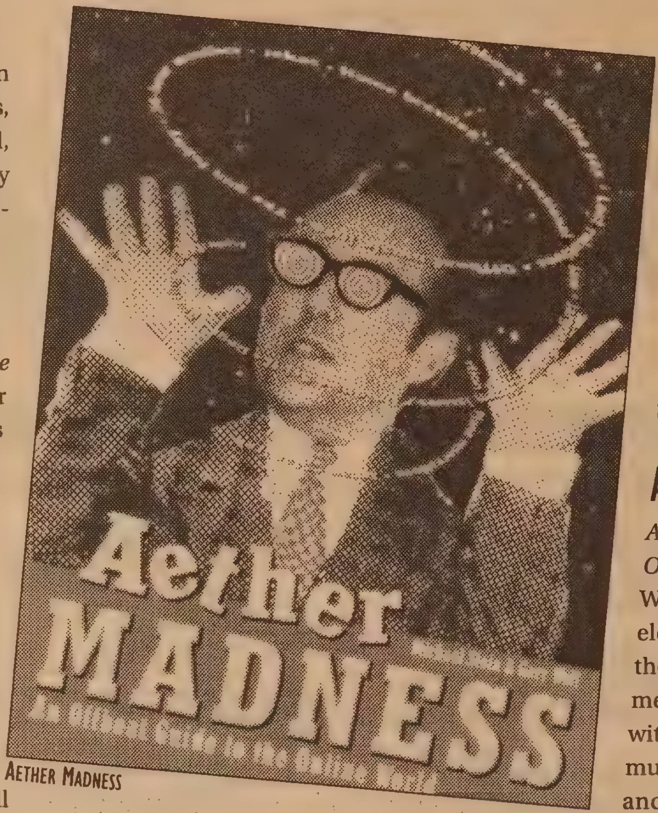
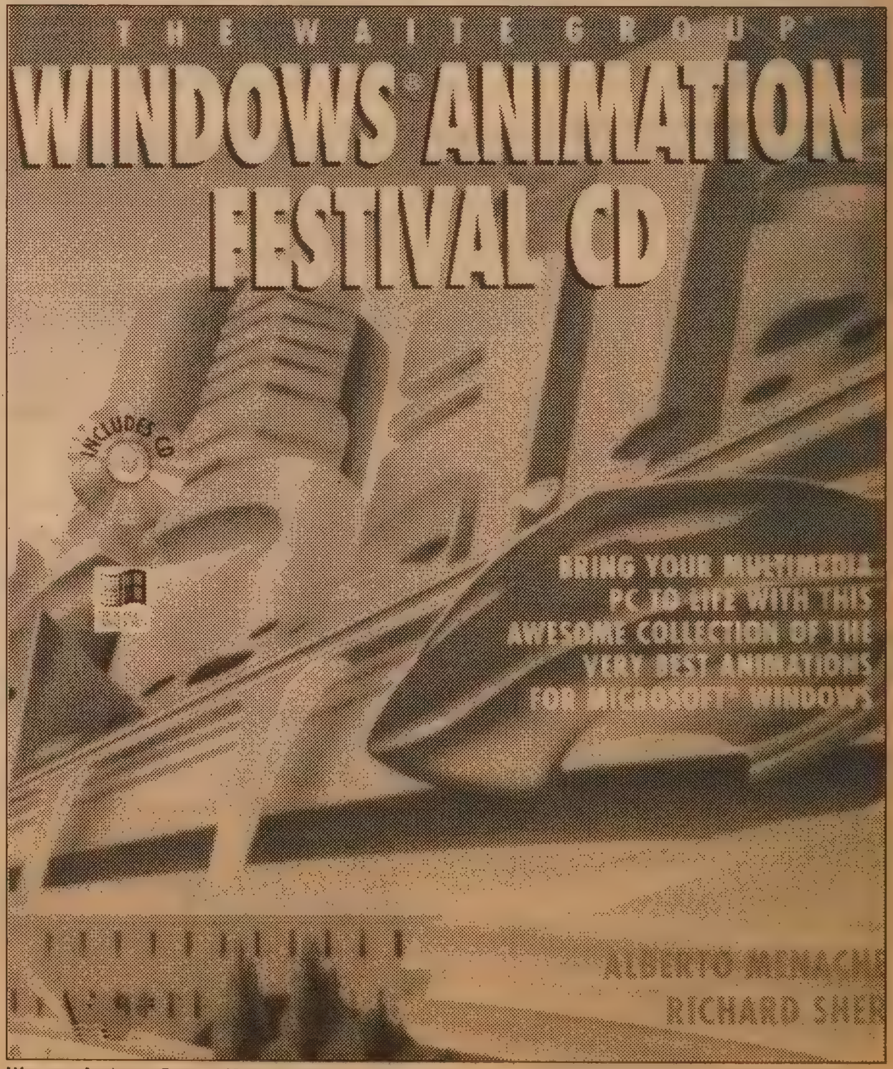
Eight years and almost a million copies later, the original author and editor of the *Macintosh Bible* has turned over his responsibilities to Peachpit Press and a small army of Mac experts. The new edition includes information on Power Macintoshes, the 500-series PowerBooks, System 7.5, the latest version of important software, including Microsoft Works 4, Word 6, and ClarisWord 2, the latest in multimedia and CD-ROM technology, and getting onto the Internet with your Mac and a modem. The *Macintosh Bible* includes free updates and an (inexpensive) offer for a set of floppy disks that contain the best shareware and freeware discussed in the book. ($30) Peachpit Press, 2414 Sixth St., Berkeley, CA 94710. (510)548-4393.



AETHER MADNESS

AETHER MADNESS

Aether Madness: An Offbeat Guide to the Online World, by Michael Stein and Gary Wolf, gives a glimpse into the universe of electronic discussions. By hitching a ride onto the Internet, independent BBSes, and commerical online services, travelers can meet with all kinds of people, from mycophagists to musicologists, Dead Heads to Limbaughites, and paranormal researchers to born-again Christians. *Aether Madness* is divided into four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Continued on page 334

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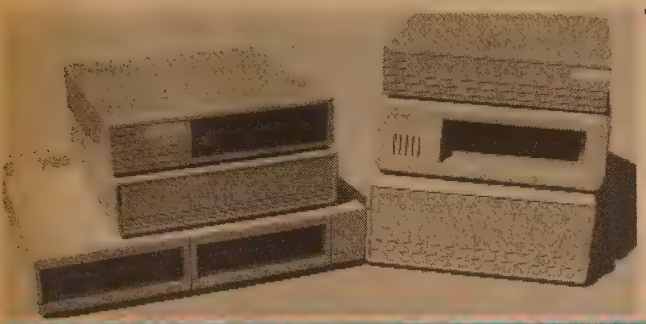

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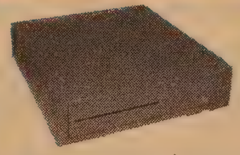

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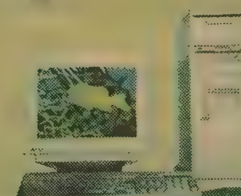

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- Super VLB IDE w/2S/1P/1G
- Orchid Kelvin 64 bit VLB w/1MB
- SONY 15Sf 15" SVGA .25dp
- Deluxe Medium Tower
- MicroSoft Ergonomic Mouse
- Microsoft Natural Keyboard
- MS-DOS 6.22 & Windows 3.11

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- Intel 80486DX2-66MHz CPU
- 32 Bit VLB Motherboard w/ZIF
- Pentium Overdrive Ready
- 256K External Cache
- 8MB High Speed RAM
- 1.44 Floppy Drive
- 540MB SCSI Hard Drive
- Adaptec 2842 VLB SCSI Controller
- Multisession SCSI 2X CD-ROM
- 512K SVGA Adapter
- 14" SVGA .28dp
- File Server Case w/2 Fans
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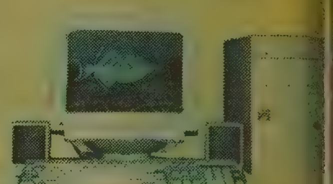

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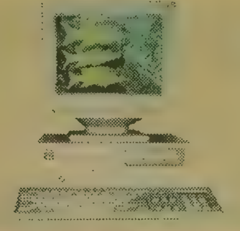

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- AMD 80486DX2-66MHz CPU
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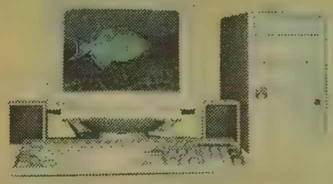

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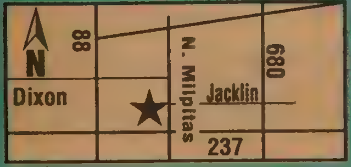

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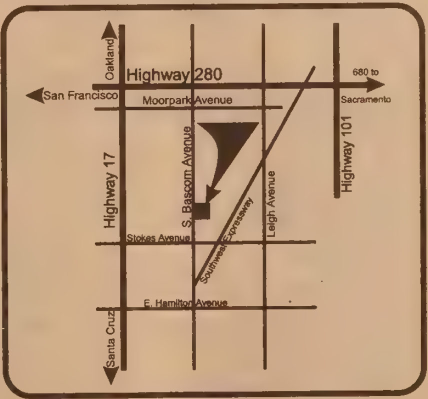

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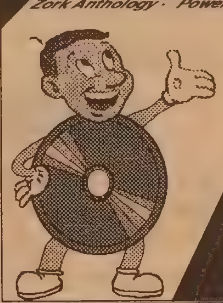

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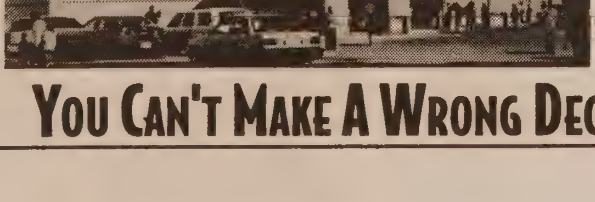

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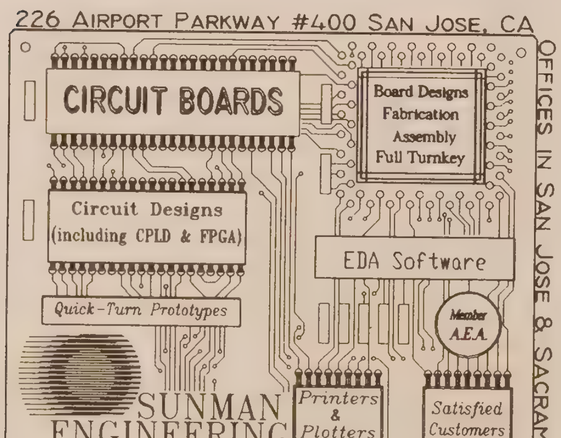

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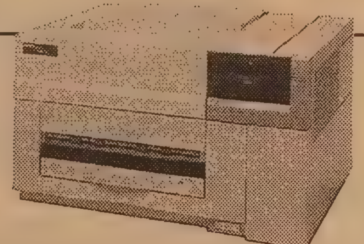

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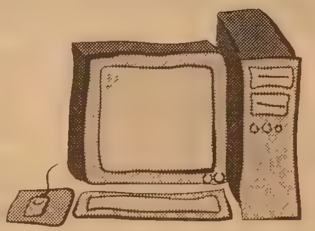

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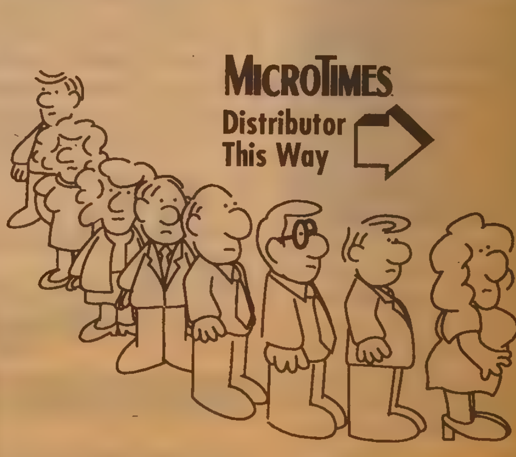

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Sig Kids

continued from page 20

One is a Time-Warner project, and is part of their Navigator system for fiber optic cable. The other is a network interactive game that the class is working on with the Virtual Academy at the University of Central Florida.

OTHER PROJECTS—GOING BEYOND THE CLASSROOM

The topics explored by SIGkids varied widely and were bounded only by the children's imaginations. It was apparent that the new computer technologies were being applied to almost any subject found in the classroom in traditional forms and that the technology and tools themselves seemed to inspire new ways of learning.

Several projects that SIGkids worked on were designed to view the physical world from a global perspective. In GeoMedia, students reviewed a CD-ROM developed by the US Geological Survey and evaluated its effectiveness in teaching students complex concepts visually through animation and hypermedia. They learned by watching animated visualizations of carbon cycles and how human interaction with the earth affects those cycles. They also learned about the greenhouse effect on the earth, and the evolution of living organisms.

SIGkids in the Future Classroom learned about mathematics through a multimedia software adventure that let them explore a place where mathematics played an important role: the building of the Egyptian pyramids.

Modeling Fractal geometry was a project mentored by David Zareski of Cornell University. Fractal Geometry is a popular area of study currently in the science, computer graphics, and artificial life communities. The project taught students, through a course and an interactive exhibit, how fractal geometry and finite automated methods (simple computer program building blocks) can be used to generate models of natural shapes such as plants, snowflakes, ferns, and flowers.

By joining educators with industry mentors the result is innovation in the classroom. By putting the tools of the trade into kids' hands today we are preparing the computer graphics artists, scientists, and technologists of tomorrow. SIGkids is an exciting venue for catching a glimpse of that future. ■

RESOURCES:

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ACM (Association for Computing Machinery)
11 W. 42nd St.
New York, NY 10036
(212)869-7440

Nickelodeon Studios
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Orlando, FL 32819
Publicity Coordinator
Shari Hoover
(407)363-3722

Stephen Jacobs
Backyard Multimedia
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Rochester, NY 14607
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Contact Jacobs to order their CD-ROM. They are $7.95 each, the price is to cover manufacturing and distribution costs.

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His kids can be reached on the Internet at:
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Product Spotlight

continued from 318

sections: Orientation, Travel Tales, Glossary, and Resource Guide. This book is for armchair travelers, dedicated aethernauts, high-level hackers, and the curious. ($18.95) Peachpit Press, 2414 Sixth St., Berkeley, CA 94710. 1-800-283-9444.

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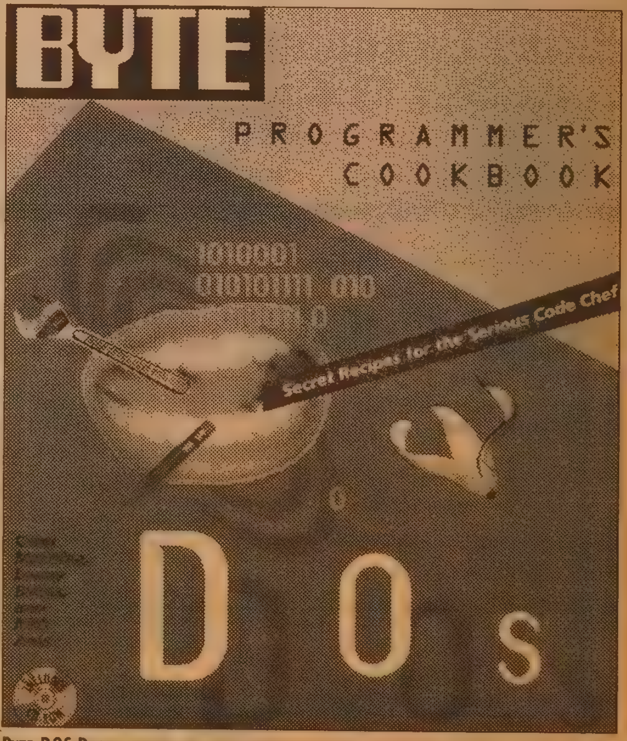

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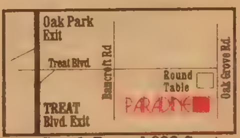

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By Kevin M. Savetz

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Computers help us to be productive. Most of the time. Certainly no one (well, no one who reads *MicroTimes*) will deny that they are useful tools.

But how often have you found yourself seething because something your computer did—or something you did to the computer—caused you to lose something of value?

No, I'm not referring to how a crashed hard disk can obliterate the only copy of your just-finished manuscript (although I've had some close calls in that department, myself). I'm talking about how computers—those wonderful time-saving tools—often end up as horrible time-suckers. Too often we let our computers get the best of us, and we devote too much of our time doing things to the computer, instead of with it.

Expect The Best; Prepare For The Worst

Case in point: Tonight I was trying to get my email program to understand that I wanted to receive mail on my computer from two accounts. Although this didn't seem like too much to ask, the very next time I ran the program I found that all of my preferences and settings were gone. Thanks to an unknown error—my goof? a programmer's bug?—I lost half an hour resetting all of my configuration options.

There are many more insidious ways to lose a half-hour, or an afternoon, to your computer's whims. Of course, there's the ever-popular pastime of accidentally deleting a file you really, really needed. The answer to that is (you've heard it a million times) "back up." People hear that word and cringe.

But backing up your important info doesn't mean buying an expensive DAT drive or shoving five hundred floppies in your computer, one after another, all day long. Backing up can be truly painless. For instance: I have two hard disks on my Mac. I use a little program that wakes up at four o'clock every morning and copies all the important stuff on one hard disk to the other, and vice versa. It doesn't bother copying applications and so on—it just copies my word processor documents and daily notes. My computer can miss a little sleep, so I don't have to spend hours rewriting an article after a crash.

Email

Electronic mail is another favorite way to lose time. Measure carefully the time you spend reading and replying to email and consider how well that time is spent. Are you getting work done and making contacts, or does email give you little to show for the time you spend with it?

I probably get more electronic mail than you do (I hope for your sake that I do—my email weighs in at about one thousand pieces each week). Some of it is from associates, some from people I don't know; some of it is junk. A lot of it I don't actually have to think much about: if someone requests one of my frequently asked questions lists, or information about my book, I fire off some detailed, boilerplate information. If a stranger starts asking me for free technical support, well, there's a special canned message for him, too. The use of prepackaged information helps me deal with the most common questions and problems that find their way to my emailbox. Think about what you say most often in email and consider if you can use a similar time-saving trick.

If you're on the Internet, you've probably heard of electronic mailing lists, discussion groups that take place in email. If your time is worth anything, think twice—think three times—before joining any. Mailing lists—especially high-volume ones—guarantee a constant influx of email, which can make you feel loved, but does nothing for your quest to get some work done.

If you do read any mailing lists, subscribe to them in "digest" format—this way, you'll get a few large messages with a lot of information in each, rather than a smattering of short, content-free ones.

The Waiting Game

I'm glad that I don't know how much of my time is spent each day just waiting for a computer—waiting for it to reboot, or for PageMaker to print a large document, or for Microsoft Word to load. Those wasted seconds and minutes stretch into hours. But how can you better spend that time, usually split into thirty-second to five-minute increments?

Personally, I always try to have something that doesn't depend on the computer within easy reach at my desk: an article to read, a letter to write, or a cup of tea to drink (or refill). Having something else to do, no matter how minute, takes the edge off of that finger-tapping numbness that comes from waiting for a slow machine.

Upgrades: The Ultimate Time-Waster

So, the new version of your favorite application is finally out. For a few (or a few hundred) dollars, you can upgrade to the latest and greatest version.

Is it really worth it? Aside from the initial cost of upgrading, consider the time it will take you to learn to use the new functions of the program, tweak its options to perfection, set it up just right, and become as comfortable with it as you are with the current version. If it's a complicated word processing or spreadsheet program (for example) those things will occur over a period of weeks. Is the time you will spend really worth the program's added features?

(I, too, am guilty. I'm writing this article with Microsoft Word 6. I've been using v5 for a year, and although 6 certainly is pretty, I have no idea how to do any of the things that are now second nature to me using the older version. I might stick with it, but the thought of resetting my toolbars, custom menus, and so on to their previous state just curdles my nerves. If I do return to v5, I am sure that I will never be able to load or print this article, ever again.)

Random Tweakage

I hesitate to even mention computer games, perhaps the most obvious time-suckers of them all. They're wonderful tools of procrastination: "Gee, I have another ten thousand words to write today, but first—another game of solitaire!"

The folks who write operating systems know we want this sort of diversion—Windows comes with two games, solitaire and Minefield. Every Mac since the original has shipped with the infamous "puzzle" game (System 7.5 comes with a customizable jigsaw puzzle, whee!).

But game-playing is easy to spot. Shooting flying saucers during work hours is a dead giveaway that you're letting the computer waste your time for you. Other acts of time-wasting frobbage are harder to spot. Maybe you don't even classify them as goofing off: What about your screensaver? Have you ever spent fifteen minutes tweaking its options? (God forbid you should have an imperfect screensaver.)

So, pay attention to how you spend time in front of your computer. While you're waiting for it to simplify your life, think about how you use it, and your favorite ways of using the world's best procrastination tool. You just might find some extra time. ■

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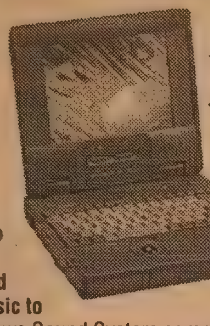

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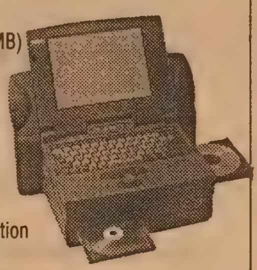

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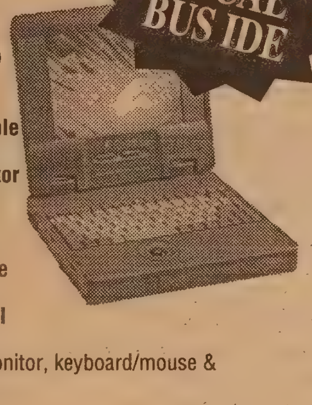

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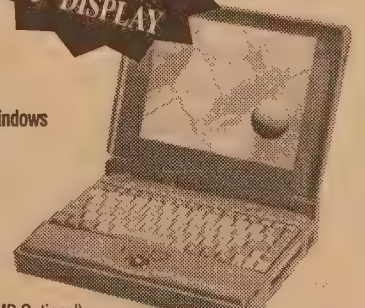

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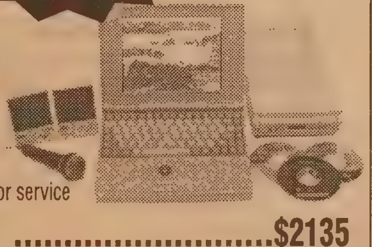

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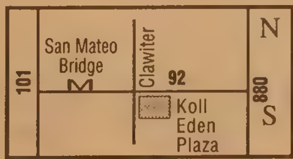

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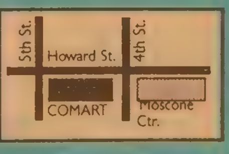

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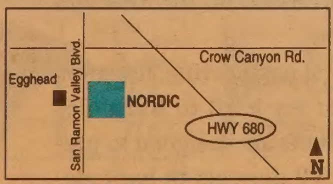

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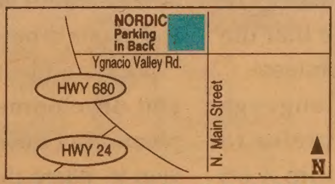

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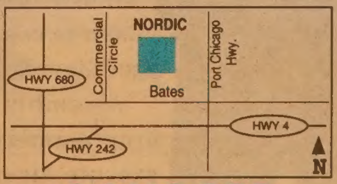

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Dvorak's Guide To Urban Folklore, Part 2

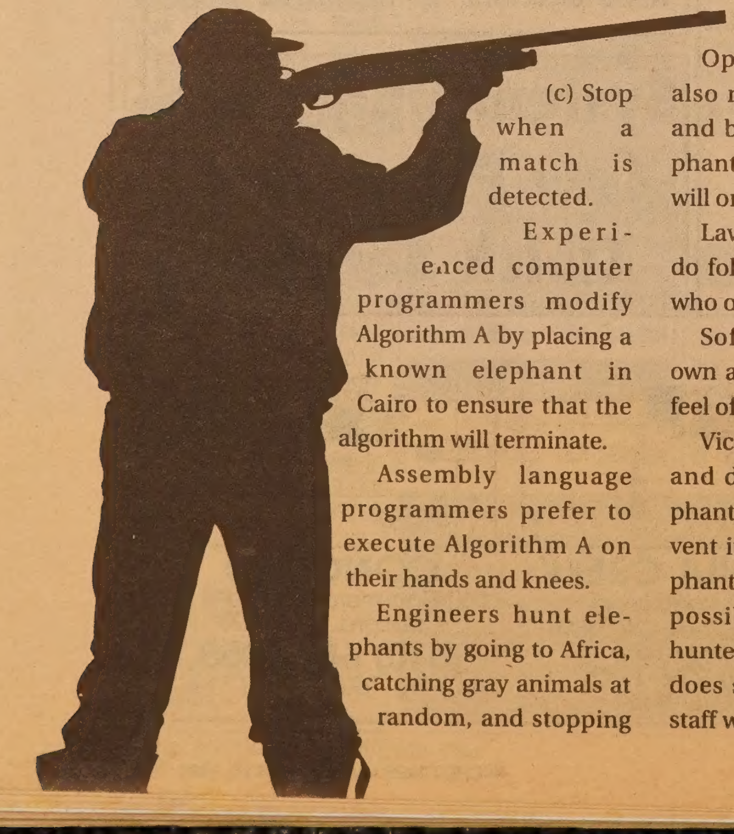
Elephant Hunters And Computer Professionals

The following piece is an absolute folklore classic. It has all the elements of an item to post on the bulletin board. Apparently this piece has shown up on many online humor forums in various forms throughout the last few years. Very funny.

Telling A Person's Profession By The Way They Hunt Elephants

Computer scientists hunt elephants by exercising Algorithm A:

1. Go to Africa.
2. Start at the Cape of Good Hope.
3. Work northward in an orderly manner, traversing the continent east and west.
4. During each traverse pass,
   (a) Catch each animal seen,
   (b) Compare each animal caught to a known elephant,
   (c) Stop when a match is detected.



Experienced computer programmers modify Algorithm A by placing a known elephant in Cairo to ensure that the algorithm will terminate.

Assembly language programmers prefer to execute Algorithm A on their hands and knees.

Engineers hunt elephants by going to Africa, catching gray animals at random, and stopping when any one of them weighs within + or - 15% of any previously observed elephant.

Mathematicians hunt elephants by going to Africa, throwing out everything that is not an elephant, and catching one of whatever is left.

Experienced mathematicians will attempt to prove the existence of at least one unique elephant before proceeding to step 1 as a subordinate exercise.

Professors of mathematics will prove the existence of at least one unique elephant and then leave the detection and capture of an actual elephant as an exercise for their graduate students.

Economists don't hunt elephants, but they believe that if elephants are paid enough, they will hunt themselves.

Consultants don't hunt elephants, and many have never hunted anything at all, but they can be hired by the hour to advise those people who do.

Operations research consultants can also measure the correlation of hat size and bullet color to the efficiency of elephant-hunting strategies, if someone else will only identify the elephants.

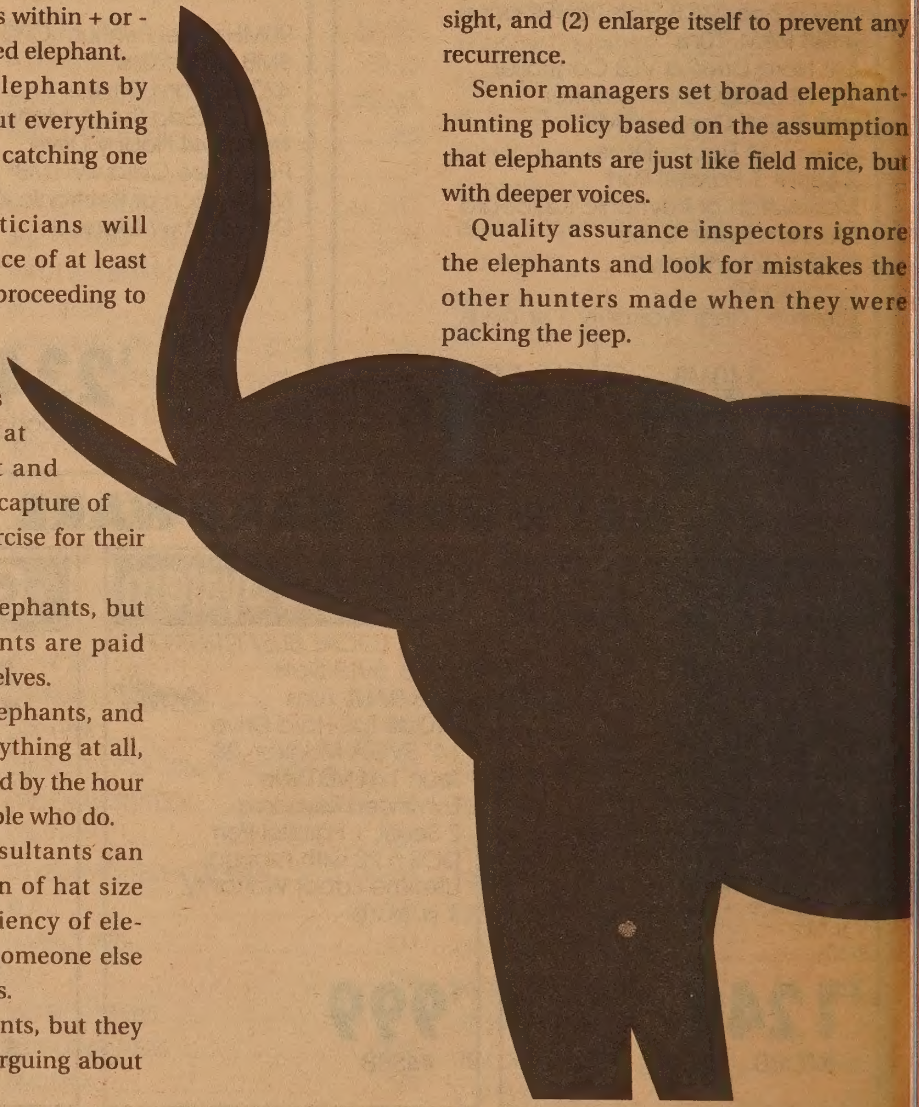
Lawyers don't hunt elephants, but they do follow the herds around arguing about who owns the droppings.

Software lawyers will claim that they own an entire herd based on the look and feel of one dropping.

Vice presidents of engineering, research, and development try hard to hunt elephants, but their staffs are designed to prevent it. When the VP does get to hunt elephants, the staff will try to ensure that all possible elephants are completely prehunted before the VP sees them. If the VP does see a non-prehunted elephant, the staff will (1) compliment the VP's keen eyesight, and (2) enlarge itself to prevent any recurrence.

Senior managers set broad elephant-hunting policy based on the assumption that elephants are just like field mice, but with deeper voices.

Quality assurance inspectors ignore the elephants and look for mistakes the other hunters made when they were packing the jeep.



Salespeople don't hunt elephants but spend their time selling elephants they haven't caught, for delivery two days before the season opens.

Software salespeople ship the first thing they catch and write up an invoice for an elephant.

Hardware salespeople catch rabbits, paint them gray, and sell them as desktop elephants. ■

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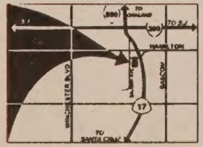

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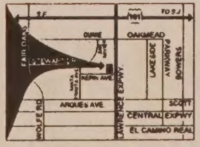

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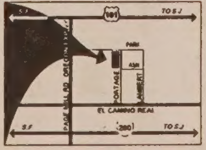

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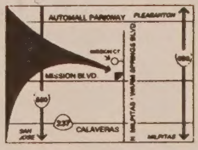

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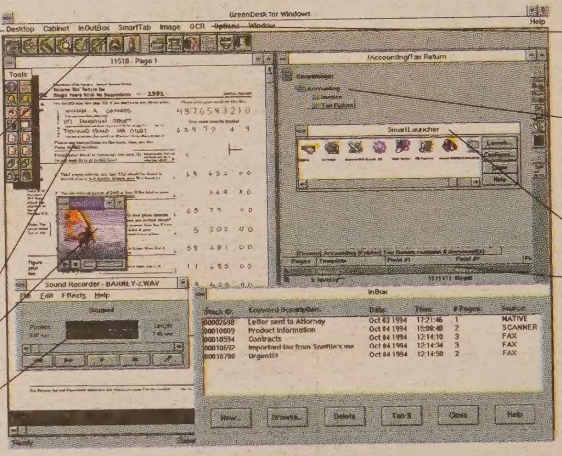

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